NARS for Master degree of microbiology and immunology أــ المعرفة والفهم:

	un dinamentalista de la deservición de la decembra		
المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark	(NARS) المعايير القومية الأكاديمية القياسية العامة ليرامج قطاع الدراسات العليا (درجةالماجستير في الميكروبيولوجيا والمناعةالطبية)
Microbiology & Immunology	A8 – A 14, B7- B13	By the end of the program the graduate should be able to. 1. State and explain the clinical features, etiology, pathogenesis and methods of laboratory diagnosis of infectious diseases and apply that knowledge in the treatment, prevention and control of communicable diseases (Maharashtra Univ) 2. State and explain the principles of immunity and immunological Phenomenon (Maharashtra Univ) 3. Recognize the basic knowledge of Molecular biology techniques (Liverpool Univ).	1) Theories, concepts and specialized knowledge of the learning area and also sciences appropriate to the professional practice.
2. Microbiology & Immunology	A9, A12, A14,A20 B7,B 8,B 12-B14	Understand and practice the principle of prevention and control of health care associated infections and rational antibiotic policy(Maharashtra Univ).	2) Mutual influence between professional practice and its impacts on the environment.
Environmental Microbiology	A2 ,B2		
Parasitology	A3,A4,B3		
Biochemistry	B4		
Epidemiology &Public health	A15,16,B5,6		
Advanced medical Virology	A17,,B14, B15 A24,B16		
Advanced medical			

Mycology	A19,20, B17		
Advanced Hospital			
Infections	A22,B18		
Advanced genetics	A23, A24, B19, B20		
Advanced medical bacteriology			
Advanced medical Immuology	A25, A26, B21		
Advanced medical	A17,,B14, B15	State the recent advances in the field of	3) Scientific developments in the
Virology	A24, B16	Medical Microbiology and apply this knowledge in understanding	field of specialization
Advanced medical Mycology	A19,20,	aetiopathogenesis and diagnosis of diseases caused by micro-organisms	
Advanced Hospital Infections	B17	(Maharashtra Univ)	
Advanced genetics	A22, B18 A23, A24, B19,		
Advanced medical bacteriology	B20		
Advanced medical Immuology	A25, A26, B21		
Advanced Hospital Infections	A19,20, B17	Recognize the principle of prevention and control of health care associated infections and rational antibiotic policy.(Maharashtra Univ)	4) Moral and legal ethics of the professional practice in the area of specialization.
Microbiology & Immunology Advanced Hospital	B9 B13		5) The concepts and principles of quality of the professional practice in the area of
Infections			specialization.
Epidemiology &Public health	B6	Successfully implement the chosen research methodology.(Maharashtra Univ)	6) The basics and ethics of scientific research.

ب ـ القدرات الذهنية:

Environmental Hicrobiology Environmental Microbiology Ba Ba Ba Perform and interpret immunological and serological tests(Maharasistra Univ) Biochemistry Ba, Biochemistry Ba, Biochemistry Ba, Biochemistry Ba, Biochemistry Ba, Advanced medical Wirology Ba Bab, Bab, Bab Bab,				ب القارات المولية :
minumological and serological tests(Maharashitra Univ) Bischemistry B4, Epidemiology & Parasitology Advanced medical Virology Advanced medical Wirology Advanced genetics Epidemiology & Immunological sests(Maharashitra Univ) B14, Advanced medical Wirology Advanced genetics Epidemiology & Immunology Advanced thospital Infections B17 Parasitology B3 Adopt an evidence approach to the prevention of major infectious diseases in the Univ) B3 Adopt an evidence approach to the prevention of major infectious diseases through the use of immunisation in tropical settings(Liverpool Univ). Microbiology & Immunology Advanced medical Virology B10, B11 Adopt an evidence thased, critical and reasoned approach to the prevention of major infectious diseases through the use of immunisation in tropical settings(Liverpool Univ). Microbiology & Immunology Advanced medical Virology B10, B11 Advanced medical Virology B10, B11 Advanced medical Virology B15, B21 Develop skills in the planning, design. undertaking and interpreting B4	المقررات التي تحقق المعايين الأعاديمية للبرامج	المستهنفة ILOs	Benchmark	فطاع الدراسات العليا
Farasitology B3 Serological tests(Maharashtra Univ) Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems.	Environmental	B2	Perform and interpret	Analyze and evaluate of
Farasitology B3 Serological tests(Maharashtra Univ) Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems. Specialization and make full use of such information to solve problems.			immunological and	information in the field of
Biochemistry B4 B5,B6 B8-B10,B12 B14 B16 B8-B10,B12 B16 B18 B18 B19 B18 B19 B19	, , , , , , , , , , , , , , , , , , ,		-	Į
Biochemistry B4, Epidemiology &Pablic health B8-B10,B12, Advanced medical Virology Advanced medical Mycology B14, Advanced medical Mycology B16 Advanced genetics B18 Epidemiology &Pablic health Microbiology & Immunology Advanced Hespital Infections B17 Parasitology B3 Adopt an evidence based, critical and reasoned approach to the prevention of major infectious diseases through the use of immunistation in tropical settings(Liverpool Univ). Microbiology & Immunology Advanced medical Virology B10, B11 B10, B11 B10, B11 B11, B21 B12 B13 Adopt an evidence based, critical and reasoned approach to the prevention of migor infectious diseases through the use of immunistation in tropical settings(Liverpool Univ). Microbiology & Immunology Advanced medical Virology B10, B11 B10, B11 B11, B21 B12 B13 Adopt an evidence based, critical and reasoned approach to the prevention of different sources of knowledge to solve professional problems. 4) Carry out a research study and / or writing a scientific methodology study on research problem.	Navasitala av		•	; *
Epidemiology &Public health B5,B6 B8-B10,B12, Microbiology & Immunology Advanced medical Mycology B14, Advanced medical Mycology B16 Advanced genetics B18 Dipidemiology &Public health Microbiology & Immunology Advanced Hospital Infections B17 Parasitology Advanced Hospital Infections B17 Parasitology Advanced Hospital Infections B17 Parasitology Advanced Hospital Infections B17 B3 Adopt an evidence based, critical and reasoned approach to the prevention of major infectious diseases through the use of immunisation in tropical settings (Liverpool Univ). Microbiology & Immunology &Public health B5 B5 B6 B10, B11 Advanced medical Virology B10, B11 Advanced medical Virology B15, B21 Biochemistry B4 Develop skills in the planning, design. undertaking and interpreting B5, B6 Develop skills in the planning, design. undertaking and interpreting study on research problem.	rarashology	B3	Gilivy	Such information to solve problems.
Epidemiology &Public health B5,B6 B8-B10,B12, Microbiology & Immunology Advanced medical Virology B14, Advanced medical Mycology B16 Advanced genetics B18 Dipidemiology &Public health Microbiology & Immunology Advanced Hospital Infections B17 Parasitology Advanced Hospital Infections B17 Parasitology Advanced Hospital Infections B17 Parasitology Advanced Hospital Infections B17 B3 Adopt an evidence based, critical and reasoned approach to the prevention of major infectious diseases through the use of immunisation in tropical settings(Liverpool Univ). Microbiology & Immunology &Public health B5 B5 B10, B11 Advanced medical Virology B10, B11 Advanced medical Virology B15, B21 Biochemistry B4 Develop skills in the planning, design. undertaking and interpreting B5, B6 Develop skills in the planning, design. undertaking and interpreting study on research problem.		!		
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Advanced genetics Epidemiology &Public health Microbiology & Immunology Advanced Hospital Infections B17 Parasitology Epidemiology &Public health B5 Organize the prevention and control of communicable diseases in the community(Maharashtra Univ) B17 Parasitology B3 Adopt an evidence based, critical and reasoned approach to the prevention of major infectious diseases through the use of immunisation in tropical settings(Liverpool Univ). Microbiology & Immunology Advanced medical Virology B10, B11 Advanced medical Virology B2 B4 Develop skills in the planning, design. undertaking and interpreting B5 Organize the prevention and control of communicable diseases of limited and contradictory information. 2) Solve specific problems on the basis of limited and contradictory information. 3) Demonstrate a high level of competence in the coordination of different sources of knowledge to solve professional problems		•		
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### Control of communicable diseases in the communicable diseases in the community (Maharashtra Univ) Parasitology & Immunology B13	Epidemiology	B5	Organize the prevention and	2) Solve specific problems on the
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Advanced Hospital Infections B17 Parasitology B3 Adopt an evidence based, critical and reasoned approach to the prevention of major infectious diseases through the use of immunisation in tropical settings(Liverpool Univ). Microbiology & Immunology B10, B11 Advanced medical Virology B4 Develop skills in the planning, design. Epidemiology B5, B6 B3 Adopt an evidence based, critical and reasoned approach to the prevention of different sources of knowledge to solve professional problems. 3) Demonstrate a high level of competence in the coordination of different sources of knowledge to solve professional problems.	Wicrobiology & Hunanology	B13	· ·	
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based, critical and reasoned approach to the prevention of major infectious diseases through the use of immunisation in tropical settings(Liverpool Univ). Microbiology & Immunology B10, B11 Advanced medical Virology B4 Develop skills in the planning, design. Epidemiology B5. B6 Based, critical and reasoned approach to the prevention of different sources of knowledge to solve professional problems. Competence in the coordination of different sources of knowledge to solve professional problems.		BI		
Epidemiology &Public health B5 B5 B6 B5 B5 B5 B5 B5 B5 B5	Parasitology	B3		
Epidemiology &Public health B5 B5 B6 B6				competence in the coordination of
Epidemiology &Public health B5 B5 Infectious diseases through the use of immunisation in tropical settings(Liverpool Univ). Solve professional problems				different sources of knowledge to
the use of immunisation in tropical settings(Liverpool Univ). Microbiology & Immunology B10, B11 Advanced medical Virology B15, B21 Biochemistry B4 Develop skills in the planning, design. Epidemiology B5, B6 Develop skills in the planning and interpreting study on research problem.	Fnidemiology	D.5	infectious diseases through	
Microbiology & Immunology B10, B11 Advanced medical Virology Biochemistry B4 Develop skills in the planning, design. planning a scientific methodology study on research problem.		B5	the use of immunisation in	Sorve professionar prositions.
Microbiology & Immunology B10, B11 Advanced medical Virology Biochemistry B4 Develop skills in the planning, design. Epidemiology B5. B6 Develop skills in the planning a scientific methodology study on research problem.	&rubiic neatin			
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Advanced medical Virology Biochemistry B4 Develop skills in the planning, design, or writing a scientific methodology undertaking and interpreting study on research problem.	Microbiology & Immunology	B10. B11		
Biochemistry Biochemistry B4 Develop skills in the planning, design. Epidemiology B5. B6 Develop skills in the or writing a scientific methodology study on research problem.		10,2011		
Biochemistry Biochemistry B4 Develop skills in the planning, design. Epidemiology B5. B6 Develop skills in the or writing a scientific methodology study on research problem.	Advanced medical Virology	B15, B21		
planning, design. or writing a scientific methodology study on research problem.	1	\		
planning, design. or writing a scientific methodology study on research problem.	Piochamietwy	R4	Develop skills in the	4) Carry out a research study and /
Epidemiology B5. B6 undertaking and interpreting study on research problem.	BIOCHERIISHTY	107	=	
1 B5. B6	1			
&Public health of a research project at	· I II	B5, B6	T T	study on research problem.
	&Public health		of a research project at	

		Master-level. (Liverpool	
		Univ).	
Microbiology & Immunology	B13	,	
Wildfoblology & Hillianology		Assess the reliability, results	
		and relevance of research	
		evidence; develop	
		effective approaches to use	
		and monitor this evidence to	
		improve health	
		care(Liverpool Univ).	
Environmental	B2	Organize the prevention and	5) Assess and analyze risks of the
LIN HOMEON		control of communicable	professional practice in the field of
Microbiology		diseases in the community	specialization.
			Specialization.
	B5	(Maharashtra Univ)	1
&Public health			
Microbiology & Immunology	D10 D11 D01		
	B10, B11, B21		
Parasitology	B3	Plan the laboratory	6) Plan to improve performance in
	B4	investigations for the	the field of specialization
Biochemistry		diagnosis of infectious	•
Blochemistry		diseases(Maharashtra Univ)	
	B10, B14	uiscases(manarastria oniv)	
Microbiology & Immunology			
Advanced genetics			
	B18		
	D10		
Advanced genetics			
- 5	,		
	B2		
Advanced medical Mycology			
Auvanceu medicai wiyoology			
	D6	Accorp	7) Make career decisions in different
Epidemiology	B6	Assess	
&Public health		the reliability, results and	professional aspects
		relevance of research	
1		evidence; develop	
		effective approaches to use	
Microbiology & Immunology	B13	and monitor this evidence to	
3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,		improve health care	
		(Liverpool Univ)	
	B17	(Michael Sini)	
Advanced Hospital Infections			

ج سالمهارات العملية:

المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرخات التعلم المستهدفة ILOs	(ARS) Benchmark	(NARS) المعابير القومية الأكاديمية القياسية العامة لبرامج قطاع الدراسات الطيا
Environmental	C1.C2	To be equipped to play a role in a microbiology laboratory	Apply modern and principle professional skills in the area of
Microbiology		in a university or a hospital	specialization.
Biochemistry	C4, C5	(Liverpool Univ)	•
Microbiology & Immunology	C8, C9-C14, C16.		
, and the second	C21		
Environmental	C2		2) Write and evaluate technical
Parasitology	C3		reports.
Biochemistry	C4		
Microbiology & Immunology	C10, C16, C 17		
Epidemiology	C7	Assess	3) Adopt assessment methods
&Public health		the reliability, results and	and tools existing in the area of
		relevance of research	specialization
		evidence; develop	
		effective approaches to use	
Microbiology & Immunology	C20	and monitor this evidence to	
		improve health care.	
		(Liverpool Univ	

د- مهارات الاتصال:

			د ههارات رونصان:
المقررات التي تحقق المعايير الأكاديمية للبرامج	مخرجات التعلم المستهدفة ILOs	(ARS) Benchmark	(NARS) المعايير القومية الأكاديمية القياسية العامة ليرامج قطاع الدراسات العليا
Epidemiology &Public health	C6	Understand and practice the	1) Communicate effectively in
Microbiology & Immunology	C7.D21	principle of prevention and	different aspects.
Advanced medical Virology	D21	control of health	-
Advanced medical Mycology	D21	care associated infections and	
Advanced genetics	D21	rational antibiotic policy.	
Advanced Hospital Infections	C18-C20, D21	(Maharashtra Univ)	
Advanced bacteriology	D21	,	
Advanced Immunology	D21		
Environmental Microbiology	D1. D-6. D9.	To develop key transferable	2) Demonstrate efficient IT
Parasitology Biochemistry	D11	skills in communication. information technology, numeracy, teamworking and self learning(Liverpool Univ)	capabilities in such a way that serves in the development of the professional practice.
Epidemiology &Public health	D17.D20		
Microbiology & Immunology	D1, D-6, D9.		
Advanced medical Virology	D1, D-6, D9.		
Advanced medical Mycology	D1, D-6, D9.		
Advanced genetics	D1, D-6, D9,		
Advanced Hospital Infections	D1. D-6. D9.		
Advanced bacteriology	D1, D-6, D9,		
Advanced Immunology	D1, D-6, D9		
Environmental Microbiology Parasitology	D2. D9 D13		3) Adopt self-assessment and specify his needs of personal learning.
Biochemistry Epidemiology &Public health	D12		
Microbiology & Immunology	D2, D9		
Advanced medical Virology	D2, D9		
Advanced medical Mycology	D2, D9		
Advanced genetics	D2. D9		
Advanced Hospital Infections	D2, D9		
Advanced bacteriology	D2. D9		

Advanced Immunology	D2, D9		1100
Environmental Microbiology	D1, D3.D6, D10		4) Use different resources for
Biochemistry	D10.D14		information and knowledge.
Epidemiology &Public health	D10, D14, D16,		
	D18		
Microbiology & Immunology			
Advanced medical Virology	D1, D3,D6.		
Advanced medical Mycology	D10.D22		
Advanced genetics	D1, D3.D6.		
Advanced Hospital Infections	D10.D22		
Advanced bacteriology	D1, D3,D6.		
Advanced Immunology	D10.D22		
	D1. D3.D6,		
	D10.D22		
	D1. D3.D6.		
	D10.D22		
	D1, D3,D6.		
	D10,D22		
	D1, D3,D6.		
	D10,D22		
			C) To a 11' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Environmental Microbiology	D5. D9.		5) Establish rules and indicators for
			assessing the performance of others.
Parasitology	D11		
Biochemistry	D14		
Epidemiology &Public health	D16. D 17. D20		
Microbiology & Immunology	D5. D9.		
Advanced medical Virology	D5. D9.		
Advanced medical Mycology Advanced medical Mycology	D5. D9.		
Advanced genetics	D5. D9.		
Advanced Hospital Infections	D5, D9.		
Advanced hacteriology	D5, D9.		
Advanced Immunology	D5, D9.		
Advanced minumology	B0, B0.		
Environmental Microbiology	D2, D3, D9, D4,	To develop key transferable	6) Collaborate effectively within
		skills in communication.	multidisciplinary team and lead
Parasitology	D11	information	teams in different professional
Turusiology		technology, numeracy,	contexts.
Biochemistry	D15	teamworking and self	
Diochemony		learning(Liverpool Univ)	
Epidemiology &Public health	D17, D20		
Microbiology & Immunology	D2, D3, D9, D4,		
Interest of a minimum of		1	

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Advanced medical Virology	D2, D3, D9, D4,	4	
Advanced medical Mycology	D2, D3, D9, D4,		
Advanced genetics	D2, D3, D9, D4,		
Advanced Hospital Infections	D2, D3, D9, D4,		
Advanced bacteriology	D2. D3. D9. D4.	***************************************	
Advanced Immunology	D2, D3, D9, D4.		
Environmental Microbiology	D5. D9		7) Demonstrate a high level of
Microbiology & Immunology			competence in the time
Advanced medical Virology			management.
Advanced medical Mycology			managoment.
Advanced genetics			
Advanced Hospital Infections			
Advanced bacteriology			
Advanced Immunology			The state of the s
Environmental Microbiology	D1. D3. D5.		8) Continuous - 16 - 1 - 1
	D9.D10. D21		8) Continuous self-education.
Parasitology	D10		
and the state of t			
Biochemistry	D10,		
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Epidemiology &Public health	D10.D14		THE PARTY OF THE P
Microbiology & Immunology	D1, D3, D5,		
	D9.D10. D21		·
Advanced medical Virology	D1, D3, D5.		
	D9.D10, D21		
Advanced medical Mycology	D1, D3, D5,		
	D9.D10. D21		
Advanced genetics	D1. D3. D5,		
	D9.D10, D21	~	
Advanced Hospital Infections	D1, D3, D5,		
	D9.D10, D21		
Advanced bacteriology	D3. D5. D9.D10.		
Advanced Immunology	D21		
	D3. D5. D9.D10.		
	D21		

رئيس القسم أ.د/ محمد ابو العلار