Department of Humanities and Social Science 5 year BSMS (Economics) with exit policy

Component wise distribution

Main Curriculum Components	Sub Components	Approved Credits for 5 year BSMS	Approved Credits Range	Proposed credits for 5 year BSMS by Department	Proposed Credits Range	Approved Credits for 4 year BSMS exit	Approved Credits Range	Proposed credits for 4 year BSMS exit by Department	Proposed Credits Range
	HSSC	5		5		5		5	
	HSSEC	6		6		6		6	
	MC	3		3		3		3	
Institute	BSC	12-20	52-58	20	53	12-20	52-58	20	53
Core Course	ESC	8-20	32-36	8	33	8-20	32-36	8	33
	DSC	4		4		4		4	
	ESSC	3	1	3		3		3	
	TM	4	-	4		4		4	
	CCCC	52-62		56		40-48		44	
	AI/ML	2		2		2		2	
Program Core Course	Engg. Analysis and design (design thinking based project)/Industry Oriented Problem Solving/ Lab based Project/ Practical Problem/ Case study	4	127-133	4	128	4	87-91	4	90
	Technical Communication	2		2		2		2	
	BTP/Entrepreneurship/ Project-based internship/PEC	16		16		6-10		6	
	PEC	32-40		40		22-26		24	
	TEB	6-8]	8		6-8		8	
	OEC	9-12	9-12	9-12	9-12	9-12	9-12	9-12	9-12
	CORE	2	2	2	2	2	2	2	2
	Total	190-200		192-19	05	150-1	60	154-15	7
	MSC/DHC	18/20		18/20)	18/2	0	18/20	
	Grand Total			210-21	15			2 2 154-157	7

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCE INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

5 year BSMS (Economics) with exit policy

Program Code : **322 - BS-MS (Economics)**

Department : HSS – Humanities and Social Science

Teaching Scheme

Year	Credits in Autumn Semester	Credits in Spring Semester	Credits (Year-wise)
1	23	21	44
2	23/24	21/22	44/46
3	21/22	23	44/45
4	24	20	44
5	6	10	16
Grand Total			192/195
Total with Minor Specialization Courses		il 18-20 credits the parentheses)	210/215

	Components	Maximum	Minimum	Comments
	Discipline (DIS)	20	10	To be evaluated by DoSW
	NCC/NSS/NSO	8	4	To be evaluated by DoSW
Non-Credit Elements (NCE)	Internship (INT)	32	10	1 week internship= 1 unit (To be coordinated by departments/centres/school)
Non-Credit Elements (INCE)	Participation in professional development programs by Industry experts/ field experts (PPD -1, PPD-2 & PPD-3)	12	6	To be coordinated by departments/centres/school (2 nd , 3 rd and 4 th Years)
	M	linimum non-credit to	be earned: 30	

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCE INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

5 year BSMS (Economics) with exit policy

Program Code : **322 - BS-MS (Economics)**

Department : HSS – Humanities and Social Science

Teaching Scheme

Year	Credits in Autumn Semester	Credits in Spring Semester	Credits (Year-wise)
1	23	21	44
2	23/24	21/22	44/46
3	21/22	23	44/45
4	16	6	22
Grand Total			154/157
Total with Minor Specialization Courses	with additional (mentioned in the		172/177

Non Coodit Flores	Components	Maximum Units	Minimum Units	Comments
Non-Credit Elements (NCE)	Discipline (DIS)	16	8	To be evaluated by DoSW
	NCC/NSS/NSO	8	4	To be evaluated by DoSW
	Internship (INT)	24	8	1-week internship= 1 unit (to be coordinated by the deptt. /Centres/School)
	Participation in professional development programs by Industry experts/ field experts (PPD-1 & PPD-2)	8	4	To be coordinated by the departments/Centres/school (2 nd & 3 rd Years)
		Minimum non-cred	lit units to be ear	ned: 24

Program Code : **322 - BS-MS (Economics)**

Department : HSS – Humanities and Social Science

Year : I

		Teaching Scheme					Contac urs/W			am ation		Relati	ve Weig	ht (%)	
S.No.	Subject Code	Course Title	Subject Area	Cr	edits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
	!		1	(A	utumn)										
1.	HSI-101	Soft Skills	HSSC		3	2	0	2	2	0	10-25	25	15-25	30-40	-
2.	MAI-101	Mathematics-I	BSC		4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	PHI-101	Physics-I	BSC		4	3	1	2/2	3	0	15-30	20	15-25	30-40	-
4.	HSC-101	Computer Programming for Economists	PCC		4	3	0	2	3	2	10-25	25	15-25	30-40	-
5.	TMI-101	Tinkering & Mentoring	TM	4	T-2	-	-	-	-	-	70	30	-	-	-
			1 1/1	4	M-2	2	0	0	2	-	50	-	-	50	-
6.	CSE-101	Data Structures and Algorithms	ESC		4	3	1	0	3	0	20-35	-	20-30	40-50	-
		Total			23										
				(5	Spring))									
1.	HSI-102	Indian Knowledge System	HSSC		2	2	0	0	2	0	20-35	-	20-30	40-50	-
2.	MAI-102	Mathematics-II	BSC		4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	ESS-103	Environmental Science and Sustainability	ESSC		3	3	0	0	3	0	20-35	-	20-30	40-50	-
4.	HSC-102	Introductory Microeconomics	PCC		4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	HSC-104	Introductory Macroeconomics	PCC		4	3	1	0	3	0	20-35	-	20-30	40-50	-
6.	PHB-103	Modern Physics	BSC		4	3	1	0	3	0	20-35	-	20-30	40-50	-
		Total			21										

Program Code : **322 - BS-MS (Economics)**

Department : HSS – Humanities and Social Science

Year : II

		Teaching Scheme				Contac ours/W			am ation		Relati	ive Weig	ght (%)	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
				(A	utum	n)	•	•	•	•	•	•	•	
1.	DAI-101	Data Science	DSC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
2.	OEC-I	Open Elective Course-I	OEC	3/4										
3.	HSC-201	Advanced Microeconomics	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	HSC-203	Advanced Macroeconomics	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	HSC-205	Introduction to Econometric Theory	PCC	4	3	0	2	3	0	10-25	25	15-25	30-40	-
6.	MAB-104	Mathematical Methods	BSC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
		Total		23/24										
					(Sprin	g)								
1.	HSSEC-I	HSS Elective Course-I	HSSEC	3										
2.	OEC-II	Open Elective Course-II	OEC	3/4										
3.	MSI-101	Fundamentals of Management	MC	3	3	0	0	3	0	20-35	-	20-30	40-50	-
4.	HSC-202	Elementary Development Economics	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	HSC-204	Advanced Econometric Theory	PCC	4	3	0	2	3	0	10-25	25	15-25	30-40	-
6.	CEE-106	Geospatial Techniques and Programming	ESC	4	3	0	2	3	0	10-25	25	15-25	30-40	-
		Total		21/22										

Program Code : 322 - BS-MS (Economics)

Department : HSS – Humanities and Social Science

Year : III

		Teaching Scheme				Contac ours/W			am. ation		Relat	ive Wei	ght (%)	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	P	Theory	Practical	CWS	PRS	MTE	ЕТЕ	PRE
				(Autun	nn)		1			l	L	I	<u> </u>	
1	OEC-III	Open Elective Course-III	OEC	3/4										
2	HSC-351	Fundamentals of AI/ML	PCC	2	2	0	0	2	0	20-35	-	20-30	40-50	-
3	HSC-301	Environmental Economics: Theory & Policy	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4	HSC-391	Technical Communication	PCC	2	1	0	2					100		
5	HST-I	Talent Enhancement Course-I	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
6	HSL-I	Program Elective Course-I	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
7	HSC-399	Community Outreach	CORE	2								100		
		Total		21/22										
				(Sprin	ıg)									
1	HSSEC-II	HSS Elective Course-II	HSSEC	3										
2	HSC-302	Monetary Economics	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
3	HST-II	Talent Enhancement Course-II	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
4	HSL-II	Program Elective Course-II	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5	HSL-III	Program Elective Course-III	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
6	HSL-IV	Program Elective Course-IV	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
7	MSC/DHC-I	Minor Specialization Course-I/ Departmental Honours Course-I	MSC/DHC	3/4										
		Total		23/ 26-27										
Note	: Students willi	ng to exit with BS Degree in Econor	nics must info	orm to Dear	ı (Aca	demic .	Affairs)	after c	ompleti	on of 6th	semeste	r		

Program Code : **322 - BS-MS (Economics)**

Department : HSS – Humanities and Social Science

Year : IV

		Teaching Scheme				Contac urs/W			am ation		Relat	ive Weig	tht (%)	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
			((Autumn)	1			1	ı			<u> </u>		
1.	HSC-400	Eng. Anal & Design*—Industry Oriented Problems/Lab Based Projects/ Practical Problems/Case Study	PCC	4										
2.	HSC-403	Financial Economics: Theory & Applications	PCC	4	3	0	2	3	0	10-25	25	15-25	30-40	-
3.	HSC-405	Principles of International Economics	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	HSL-V	Program Elective Course-V	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	HSL-VI	Program Elective Course-VI	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
6.	HSL-VII	Program Elective Course-VII	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
7.	MSC/DHC-II	Minor Specialization Course-II/ Departmental Honours Course-II	MSC/DHC	3/4										
		Total		24/ 27-28										
				(Spring)										
1.	HSC-402	Public Policy	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
2.	HSC-404	Growth Economics	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	HSL-VIII	Program Elective Course-VIII	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	HSL-IX	Program Elective Course-IX	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	HSL-X	Program Elective Course-X	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
6.	MSC/DHC-III	Minor Specialization Course-III/ Departmental Honours Course-III	MSC/DHC	3/4										
		Total		20/ 23-24										

Program Code : **322 - BS-MS (Economics)**

Department : HSS – Humanities and Social Science

Year : V

		Teaching Scheme				Contac urs/W			am ation		Relati	ve Weig	ht (%)	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
				(Autumn)										
1.	HSP-501	Thesis (Stage-I)	PCC	6								100		
2.	MSC/DHC-IV	Minor Specialization Course-IV/ Departmental Honours Course-IV	MSC/DHC	3/4										
3.	MSC/DHC-V	Minor Specialization Course-V / Departmental Honours Course-V	MSC/DHC	3/4										
		Total		6/ 12-14										
			Sem	ester-II (Sp	ring)									
1.	HSP-502	Thesis (Stage-II)	PCC	10	_		_					100		
		Total		10	_		_				_	_		

Program Code : 322 - BS-MS (Economics) Exit policy
Department : HSS - Humanities and Social Science

Year : IV

		Teaching Scheme				Conta urs/V	act Week		am. ation		Relati	ve Weigl	ht (%)	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	Т	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
			((Autumn)				•					•	
1.	HSC-400	Eng. Anal & Design*/Industry Oriented Problems/Lab Based Projects/ Practical Problems/Case Study	PCC	4										
2.	HSC-403	Financial Economics: Theory & Applications	PCC	4	3	0	2	3	0	10-25	25	15-25	30-40	-
3.	HSL-V	Program Elective Course-V	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	HSL-VI	Program Elective Course-VI	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	MSC/DHC-II	Minor Specialization Course-II/ Departmental Honours Course-II	MSC/DHC	3/4										
6.	MSC/DHC-III		MSC/DHC											
		Total		16/ 22-24										
				(Spring)										
1.	HSP-400/ HSL	Project/Entrepreneurship/ Project-based Internship/PEC*	PCC/PEC*	6								100		
2.	MSC/DHC-IV	Minor Specialization Course-IV/ Departmental Honours Course-IV	MSC/DHC	3/4										
3.	MSC/DHC-V	Minor Specialization Course-V/ Departmental Honours Course-V	MSC/DHC	3/4										
		Total		6/ 12-14										

List of Program Elective Courses

Teach	ing Scheme				C	Contac	t		Duration		Rela	tive W	eight	
					Ηοι	ırs/W	eek	(H	rs.)			(%)		
			Subject		_	_	_			a				
S. No.	Subject Code	Course Title	Area	Credits	L	T	P		Practical		PRS		ETE	PRE
1	HSL-301	Economics of Risk and Uncertainty	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
2	HSL-302	Agricultural Economics	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
3	HSL-303	Labour Economics	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4	HSL-501	Game Theory	PEC	4	3	1	0	3	0	20-35	_	20-30	40-50	-
5	HSL-502	Indian Economy	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
6	HSL-503	Advanced Development Economics	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
7	HSL-504	Behavioural Economics	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
8	HSL-505	Industrial Organization	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
9	HSL-506	Energy Economics	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
10	HSL-601	Research Methods	PEC	4	3	0	2	3	0	20-35	-	20-30	40-50	-
11	HSL-602	Economics of Services	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
12	HSL-603	Health Economics	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
13	HSL-604	Public Finance	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
14	HSL-605	Economics of Infrastructure	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
15	HSL-606	Ecological Economics	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
16	HSL-607	Panel Data Analysis	PEC	4	3	0	2	3	0	20-35	-	20-30	40-50	-
17	HSL-651	Advanced International Economics	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
18	HSL-652	Welfare Economics	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
19	HSL-653	History of Economic Thought	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
20	HSL-654	Institutional Economics	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
21	HSL-655	Innovation & Economic Policy	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
22	HSL-656	Resource Economics & Valuation	PEC	4	3	1	0	3	0	20-35		20-30	40-50	-
23	HSL-657	Household Economics	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-

List of Talent Enhancement Course

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Course Code	Course Title	Area	Cr.	L	Т	P	Th.	Pr.	c w s	PRS	MTE	ЕТЕ	PRE
				TEB-	A		•							
1	HST-101	Economic Data Analysis	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
2	HST-102	Cross-sectional Data Analysis	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
3	HST-103	Time Series Data Analysis	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
				TEB-	В									
1	HST-104	Applied Econometrics	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
2	HST-105	Applied Production Econometrics	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
3	HST-106	Optimization and Nonparametric Efficiency Analysis	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
	I		1	TEB-	С									
1	HST-107	Business Analytics	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
2	HST-108	Analytics for Business and Society	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-
3	HST-109	Social and Economic Networks	TEB	4	3	0	2	3	0	10-25	25	15-25	30-40	-

Minor Specialization Courses

SN	Course	Course Name	Credits	Semester
	Code			
1.	HSC-201	Advanced Microeconomics	4	Autumn
2.	HSC-203	Advanced Macroeconomics	4	Autumn
3.	HSC-205	Introduction to Econometric Theory	4	Autumn
4.	HSC-102	Introductory Microeconomics	4	Spring
5.	HSC-104	Introductory Macroeconomics	4	Spring
6.	HSC-202	Elementary Development Economics	4	Spring

Departmental Honours Courses (20 credits)

SN	Course	Course Name	Credits
	Code		
1.	HSL-503	Advance Development Economics	4
2.	HSL-651	Advance International Economics	4
3.	HSL-603	Public Finance	4
4.	HSL-606	Ecological Economics	4
5.	HSL-303	Labour Economics	4
6.	HSL-301	Economics of Risk and Uncertainty	4
7.	HSL-501	Game Theory	4
8.	HSL-653	History of Economic Thought	4
9.	HSL-655	Innovation & Economic Policy	4
10.	HSL-656	Resource Economics & Valuation	4