



**SYMBIOSIS SCHOOL
OF ECONOMICS**



Symbiosis School of Economics

M.Sc. (Economics)

About SSE

Symbiosis School of Economics (SSE), established in 2008, is an integral part of Symbiosis International (Deemed University), which has achieved NAAC Grade 'A++'. Symbiosis International (Deemed University) is ranked between 801 and 1000 globally in the overall category, 437th in Citation globally, and 23rd among Indian Universities by the Times Higher Education World University Rankings 2023.

With more than five decades of contribution to education, research and development, Symbiosis has established itself as an undisputed leader in education, creating quality resources. Symbiosis School of Economics seeks to develop intellectual discipline, critical thinking and analytical assessment, ultimately resulting in rational thinking and knowledge of the current economic climate. It strives for an educational environment committed to excellence and academic freedom.

Symbiosis School of Economics offers graduate and postgraduate programmes in economics. The course content is rigorous, with a descriptive and investigative approach to connect students with all aspects of economic areas, focusing on micro, macro and global paradigms. We endeavour to develop intellectual and professional competencies among students and equip them with skills that include innovation and pragmatism in problem-solving. With the evolving scope for creativity, originality and student initiatives, Symbiosis School of Economics provides its students with a fulfilling journey of academic pursuits.

About Director, SSE

Prof. Jyoti Chandiramani has more than 40 years of experience in teaching and research. She is presently the Director of Symbiosis School of Economics and the Dean Faculty of Humanities and Social Sciences at Symbiosis International (Deemed University), Pune – India. She teaches Urban Economic Development and Urban Mobility at the Masters level.

Besides writing a few textbooks, she has jointly edited a book with Ramanath Jha on 'Perspectives in Urban Development: Issues in Infrastructure, Planning, and Governance.' Her areas of research interest include Urban Infrastructure, Urban Transport, and Urban Poverty, and she is presently working on Pune-centric cases. Besides, she keenly studies and follows trends in International Development Cooperation – from the MDGs to the SDGs. A number of Ph.D scholars have been awarded their Ph.D under her guidance, with some scholars presently being guided by her. She has undertaken various research projects and consultancy in collaboration with NIUA, NABARD, ITDP, Sulochana Thapar Foundation, and reputed think tanks in India.



Programme Highlights

At Symbiosis School of Economics, integrating research, academics, relevant opportunities, extracurricular activities, skill development programs, internationalisation, and enhanced engagement into the course creates a unique programme that provides the students with the right skills. The well-designed course structure has an ever-evolving curriculum that includes continuous assessments in the form of term papers and reports. Specifically, the Research Methodology course teaches students the applications of various qualitative and quantitative research methods. The programme's diverse pedagogy includes classroom discussions, field visits, guest lectures, seminars, workshops, assignments, and internships.

Research at SSE

Centre for Academic Writing and Centre for Quantitative Learning and Applications support the faculty and student research at Symbiosis School of Economics. The in-house journal: "Oeconomica Scriptis", which is a compilation of outstanding academic writing, is published annually. The Centre for Quantitative Learning and Applications facilitates advanced-level data analysis and statistical software training for students. Our curriculum includes softwares such as SPSS, STATA, R, Python, LaTeX and other statistical and econometric software. Faculty research delves into various fields. Students are encouraged to assist the faculty with their own learning and research experience. Focal areas of research include:

Urban Development- SSE looks forward to starting an Urban Development centre with a focused approach towards urban issues, which provides the necessary leverage to implement the strategic intervention, test its efficacy and re-orient its future responses through outcome evaluation.

Sustainable Development- Faculty members conducting research in this area are exploring how innovation and technology play a pivotal role in sustainable development, as well as the implications of linkage between FDI, International Trade, innovation and human development.

Behavioral and Experimental Economics- SSE has been collaborating and consulting for corporate organisations towards policy changes in HR, nudges in marketing collaterals, analyzing investor behaviour and other areas. Research in experimental economics examines how various aspects of identity and institution influence decision-making by conducting experiments and applying econometric analysis.

Rural Development - SSE faculty members have been conducting research studies under the aegis of Rural Development. The cell has focused its attention on various sub-themes, which include Tribal Development, Agriculture and Climate Change, Food and Nutrition Security, Farmer's response to changing markets, and other contemporary topics and areas of research. The cell has a well-established network of collaborations with leading institutes like NABARD, NIUA, and NITI Aayog, as well as Municipal Corporations, NGOs and Think Tanks. The cell endeavours to undertake many more studies, focusing on the impact, assessment and evaluation of different rural programmes and government interventions. Over the years, SSE has increasingly contributed to research-driven and informed policymaking.

Internationalization & Enhanced Engagement

Symbiosis School of Economics courses are benchmarked with the leading international universities. Students here receive immense exposure while participating in the semester exchange programmes with the most premium universities. This dimension of the courses prepares students for further studies at leading Indian and foreign universities and makes them globally employable.

- Dauphine University
- Leibniz University
- Berlin School of Economics and Law
- Lisbon School of Economics and Management
- London School of Economics
- DHBW Heidenheim
- Bristol University
- University of Helwan
- Leeds Beckett University

Symbiosis School of Economics is actively building strong relationships with regional, national and international academic institutions and research organisations. We have collaborated with Macquarie University, Australia, NIUA and RIS in New Delhi; NABARD Mumbai, Bengaluru; and Avantha Foundation, Pune, to name a few.



Course Overview

The M.Sc. (Economics) programme follows an interdisciplinary curriculum that seeks to develop intellectual discipline and critical and analytical thinking among our students. A rigorous and relevant curriculum catering to the needs of the dynamic nature of the global market ensures the overall growth of our students. With a batch of students from diverse academic backgrounds, exposure to a broad set of ideas, innovations, and iterations is guaranteed throughout their academic journey. Students are evaluated based on various project assessments, term papers and research papers. They are also encouraged to write dissertations and aim for research publications. The programme and the knowledge ethic imbibed at Symbiosis School of Economics prepare our students to take on leadership roles in their preferred fields.

First Year:

During the programme's first year, the students are given an understanding of the basics of Economics, including training in the application and quantitative-based courses like Mathematical Economics and Econometrics analysis. Our students garner a deeper level of understanding of the issues related to trade and the economy overall. During the first year, a broader sense of understanding about the fundamentals of economics is introduced through courses like Microeconomics, Macroeconomics, Growth and Development. Along with the theoretical and quantitative packed courses, we train them in Research Methodologies through various courses, assignments and applications. Our rigorous framework involving the courses' theoretical, quantitative, and practical understanding makes our students a better fit in any field they choose to contribute towards in the future.

Final Year Specialisations

M.Sc. (Economics) - International Trade

This course deals with the theory and practice of International Trade and trade-related policies. It focuses on analysing the gains from trade, the changing patterns of trade, the income distributional consequences of liberalising foreign trade, the relationship between trade, investment, and economic growth, and the reasons for and consequences of trade policies. The course relies predominantly on a standard collection of international trade models to understand the motivations behind modern trade policies. Motives for countries or organisations to restrict or regulate international trade are analysed, and the effects of such policies are studied. Although the course emphasises understanding past and current events in the world economy, formal economic modelling is relied upon to help understand these events.

M.Sc. (Economics) - Development Studies

Development studies is a multidisciplinary course that focuses on the evolution of nations from political, cultural, geographical, and socio-economic perspectives. It emerged as an academic discipline during the late part of the 20th century amid growing concerns over third-world economies struggling to establish themselves in the postcolonial era. Development studies specialisation is about understanding the current political landscape by examining their origins, enabling academics, politicians, and world charity organisations to make better plans for the future. The primary focus of developmental studies is to study the improvement in people's lives. It gives insight into developmental theory and an understanding of the structural issues and questions of development.

M.Sc. (Economics) - Urban Development

Largely considered as a technical field of study involving the construction and design of urban spaces, Urban Development considers the critical economic and socio-economic factors. The course is interdisciplinary in its approach. Students are exposed to technically grounded courses like Geographic Information Systems (GIS), the importance of financial management and governance at Urban Local Bodies, energy, water and sanitation resources in the country and the need to curb urban poverty. Understanding the spread of land in urban areas and planning urban spaces appropriately is the key focus of the course.

M.Sc. (Economics) - Finance

Economics with financial knowledge provides a set of skills with an overall understanding of the economy and financial markets. Our students are equipped with the concepts and training to contribute to the world of finance in the long term. With a solid foundation in core economics built in the first two semesters, this specialisation provides the students with in-depth knowledge of the financial sphere. Students gain in-depth knowledge of finance through extensive courses in corporate finance, financial markets, risk, investments, financial modelling, and other applied courses. The specialisation provides meticulous, practical training that increases the adaptability of our students in this competitive and dynamic field.

M.Sc. (Economics) - Data Science

The field of Data Science has evolved into an essential component of almost every business and industry. Beyond corporate world, it plays an important role in public policy and academic research by analysing social and economic trends and supporting evidence-based decision-making. The rise of transformative technologies such as digital media, artificial intelligence, and blockchain has led to an era where Data Science plays a central role in the success of any organization. As a result, the demand for Data Scientists has skyrocketed worldwide over the past five years. Therefore, the current need is for a supply of qualified professionals trained in Data Science, Machine Learning and AI. In response to market demand and industry requirements, our curriculum for the Master of Science in Data Science program integrates foundational Economics courses with real world data-focused courses. After completing this specialisation, students will be able to work confidently with data across its entire lifecycle, from acquisition and cleaning to analysis, modelling, and interpretation.

Semester: 1		
Serial No	Course Title	Credits
1	Mathematical Economics	4
2	Public Economics	3
3	Advanced Macroeconomics – I	3
4	Advanced Microeconomics – I	3
5	Advance Econometrics – I	4
6	Environment And Climate Change	3
7	Research Methodology and Software Package I	3
	Total	23

Semester: 2		
Serial No	Course Title	Credits
1	Research Methodology and Software Package II	3
2	Advanced Macroeconomics – II	3
3	Advanced Microeconomics – II	3
4	Advanced Econometrics – II	4
5	Growth and Development	4
6	Game Theory	2
	Total	19

Semester: 3		
Serial No	Course Title	Credits
1	Internship (IT, UD, DS and Finance)	4
2	Research Publication	Non Letter Grade
3	Dissertation (IT, UD, DS and Finance)	2
	Total	6
Specialization	Development Studies	
1	Markets and Institutional Framework of Development	4
2	Urban Economic Development	4
3	Development Experience	4
	Total	12
	Optional Choice (Any 1)	
4	Behavioural and Experimental Economics	4
4	Trade, Aid and Development	4
	Total	4

Semester: 3		
Specialization	International Trade	
1	Pure Theory of Trade	4
2	International Trade Policy	4
3	Open Macroeconomics	4
	Total	12
	Optional Choice (Any 1)	
4	International Political Economy and Trade	2
4	Trade and Environment	2
	Total	2
Specialization	Finance	
1	Security Analysis and Portfolio Management	4
2	Financial Economics	4
3	Derivative Markets	3
4	Financial Modelling	2
	Total	13
Specialization	Urban Development	
1	Urban Finance	4
2	Urban Governance	2
3	Urban Demography	2
4	Urban Land Economics	2
5	Urban Planning and Development	2
6	GIS and Problem Solving in the Urban India Context	2
	Total	14
Specialization	Data Science	
1	Advanced Programming	4
2	Big Data Technologies	4
3	Machine Learning in Economics	3
4	Deep Learning & AI	3
5	Business Analytics & Visualisations	3
6	Financial Analytics & Modeling	2
7	Flexi Credit Course	3
	Total	22

Semester: 4		
1	Dissertation II (IT, UD, DS and Finance)	4
	Total	4
Specialization	Development Studies	
1	Theories and Models of Development and Distribution	4
2	Rural Development	4
3	Human Development	4
	Total	12
Specialization	International Trade	
1	International Organizations and Regional Cooperation in Trade	4
2	International Capital Market and Finance	4
3	Multinational Trade : Procedures and Laws	4
4	Trade Finance	2
	Total	14
Specialization	Finance	
1	Corporate Valuation	4
2	Financial Risk Management	4
3	Insurance Management	3
4	Behavioral Finance	2
	Total	13
	Optional Choice (Any 1)	
5	Project & Infrastructure Finance	2
6	Introduction to Micro Finance	2
	Total	2
Specialization	Urban Development	
1	Urban Development Experience	4
2	Urban Poverty, Migration and Sustainable Livelihoods	4
	Total	8
	Optional Choice (Any 3)	
3	Urban Mobility	2
4	Urban Energy and Environment	2
5	Urban Solid Waste Management	2
6	Urban Water and Sanitation	2
	Total	6
Specialization	Data Science	
1	Natural Language Processing & Computer Vision	4
2	Corporate Internships	6
3	Dissertation	6
	Total	16

Footnote: All specializations are subject to availability and the score obtained in the qualifying process. Seats available for each specialization will be a maximum of 15. The selection committee's decision will be full and final.

Annual Events

Flagship Event EOTY:

SSE organises its annual flagship competition, “Economist of the Year”. This platform offers students worldwide an opportunity to showcase their skills and expertise in a stimulating array of events. Since 2017, the competition gets stiffer each year, testing students on several attributes such as analytical abilities, critical thinking, research aptitude, and general knowledge.



Suresh Tendulkar Memorial Lectures:

This lecture series has been hosted by SSE since 2014, attracting distinguished economists as guest speakers from across continents. Over the years, speakers have elucidated various paradigms of poverty - a relevant theme given the late Professor Tendulkar's.



Equilibria:

Equilibria is SSE's annual inter-college festival. This festival imbibes cultural, social, physical, and intellectual aspects, all under one banner. Competitions provide a platform for participants to showcase their talents and skills. Students from all across India and beyond are invited to attend Equilibria's festivals, which include the Cultural Fest, Social Fest, EQ MUN, and Sports Fest.



Registration Procedure

The applicants can register online at

<https://siu26.ishinfo.com/SIUPGFY26/Register/Index.aspx>

Payment Process

You can pay a non-refundable fee of Rs INR 1500 online through Credit Card / Debit Card / Net Banking with the payment gateway link provided in the form

Intake Capacity - M.Sc.

Programme	Full Time	Duration	Intake	Eligibility
M.Sc. (Economics)	Full Time	2 years	80	<ol style="list-style-type: none">1. Graduate from any recognised University/ Institution of National Importance with a minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste / Scheduled Tribes).2. Any graduate with exposure to economics, mathematics, statistics, or physics is welcome.3. B.Tech and B.E. graduates may also apply. Graduates from any statutory university with a minimum of 50% marks or equivalent grade (45% or equivalent grade for SC/ST) at graduation level.4. Students appearing for final year examinations can apply, but their admission will be subject to obtaining a minimum of 50% marks or equivalent grade (45% or equivalent grade for SC/ST) at the qualifying examination

Intake Procedure

Students will be selected on the basis of Personal Interaction (PI)

Personal Interaction -

Interaction with a panel of faculty members/experts who try to comprehend the knowledge and understanding of the candidate with respect to Economics, Mathematics and Statistics.



Humility and hard work are my top takeaways. Knowing only my love for economics, I joined SSE. Two years at SSE took me through self-doubt and tested my love. But, finally I came out surer of my course and with a clearer purpose. Academically, the course contents threw open the various aspects of economics providing us a platform to find our interest within the vast course of economics. The opportunities to interact with the industry steered me towards taking the right career decisions.

Sebin Nidhiri, M.Sc. 2013-15

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Two years at SSE prepared me to handle the pressures of both the academic and professional worlds. The exam pattern, assignments, group work, and support from various professors shaped me into the person I am today: confident, knowledgeable, and courageous in the face of unknown challenges. Sincere thanks to Dr. Jyoti Chandiramani and the other faculty members for unknowingly changing the lives of SSE students.

Manpreet Singh, M.Sc. 2017-19



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It is going to be a pressure cooker, but you'll know the dish served would be a delicacy” SSE works on this principle. From exploring interests to meeting deadlines, writing papers to present it on time, SSE makes one industry- ready. The rigorous course will keep you on your toes and the application- based approach will make you apply theory in real-life scenarios. SSE not only did make me realise my interests but it made me act upon them, explore the unexplored and find mentors and friends who will stay for a lifetime. SSE would always be a cherished experience.

Samridhi Pandey, M.Sc. 2018-20

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SSE has given me the platform to learn, develop and excel. The institute has not just guided me to be an able Post graduate but has trained me very well as a professional for the world outside. My confidence, my leadership and my knowledge got a widespread exposure through the guidance of our director Dr. Jyoti Chandiramani and all our professors, who are extremely supportive and have constantly been our saviours. The lessons that I learnt from the institute have always proven to be impactful. SSE taught me hard work, discipline and dedication makes one prominent.

Para Mahavidya Rajeswari, M.Sc. President 2018-20



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