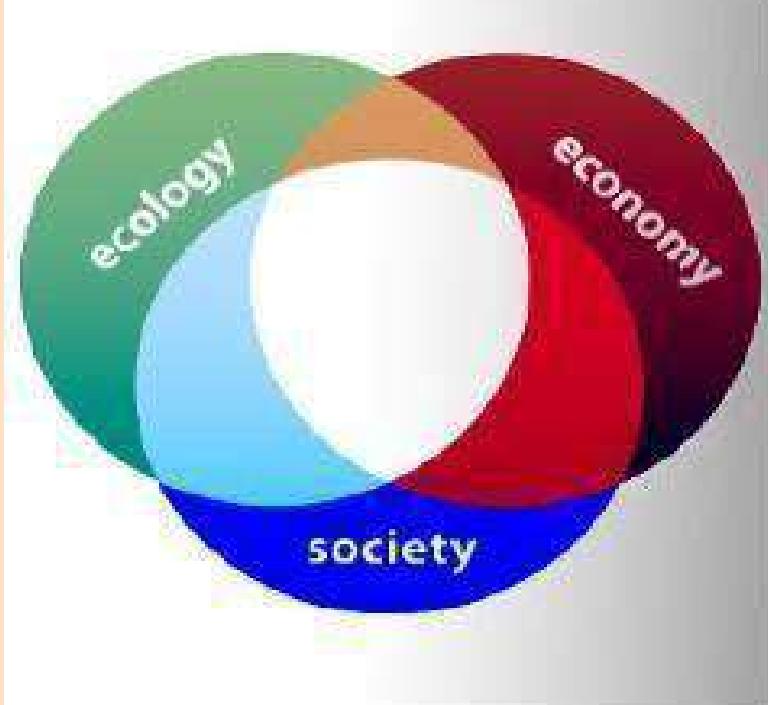




**SYMBIOSIS SCHOOL
OF ECONOMICS**

**Student Handbook: Bachelor of Science
(Economics) Honours Programme
Structure (2020-23)**

[Academic Year 2020-21]



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

Established under Section 3 of the UGC Act, 1956 | Re-accredited by NAAC with 'A' grade (3.58/4) | Awarded Category - I by UGC



1.1. Vision

- Promoting international understanding through quality education

1.2. Mission

- To inculcate spirit of 'Vasudhaiva Kutumbakam' (the world is one family)
- To contribute towards knowledge generation and dissemination
- To impart ethical and value-based learning
- To foster the spirit of national development
- To cultivate cross cultural sensitivities
- To develop global competencies amongst students
- To nurture creativity and encourage entrepreneurship
- To enhance employability and contribute to human resource development
- To promote health and wellness amongst students, staff & community
- To instill sensitivity towards the community and environmental concerns
- To produce thought provoking leaders for society

1.3. From the Director's Desk



Prof. Jyoti Chandiramani

Director, Symbiosis School of
Economics Dean, Faculty of Humanities
and Social Sciences – SIU Email:
director@sse.ac.in

Dear Student Friends,

Welcome to academic year (2020-21) at SSE!

SSE is completing the tenth years since the launch on 1st of August, 2018. It has indeed been an enriching decade – marked by academic excellence and strongly validated by the onward journey of some of our students:

- I. *Kirti Singh (2008-11) – pursued her M.A. Economics at Jawaharlal Nehru University and is presently working as Indian Economic Service Officer*
- II. *Karan Khanna (2009-12), pursued his Master's in Business Administration at University of Lincoln and is presently working as a Senior Financial Analyst at the World Bank*
- III. *Souradeep Ghosh (2010-13) – pursued her Masters in Applied Economics at Centre for Development Studies, Jawaharlal Nehru University and is presently working as Executive, Advance Analytics at Nielsen Marketing Analytics*
- IV. *Varun Rao (2011-14) - pursued his Master's in Business Administration at Symbiosis Institute of Business Management and is presently a Management Trainee at Pidilite Industries Ltd.*
- V. *Aishwarya Ketkar (2012-15) – pursued her M.S (Mathematical Finance) from Boston University and is presently working at State Street, Boston*
- VI. *Radhika Venkatraman (2013-16) – completed her M.A in International Relations at Johns Hopkins University*
- VII. *Anuj Godhani (2014-17) – Best Paper at the South Asian Economic Students Meet – Pursuing M.S (Operations Research) at the University of Columbia*
- VIII. *Shivali Pande (2015-18) – Economist of the Year – Indian Institute of Management (Bangalore)*

While I can speak endlessly about our thousand plus alumni I look forward to welcoming the eleventh undergraduate batch joining us in June 2018 and the eighth masters batch in July 2018.

I am sure our students and alumni will be the best ambassadors of SSE – with their journey and achievements contributing to making the future of SSE even more meaningful and rewarding.

The year 2018-19 is a year filled with responsibilities on our present batch of students, to ensure that the tenth year is a celebration year to remember. The brief and selective glimpse of the Tenth Year Plan includes:

- I. The Foundation Day Celebrations- 1st August 2018*
- II. The Fifth Prof Suresh Tendulkar Memorial Lecture – 16th August 2018 delivered by Prof Maithresh Ghatak – London School of Economics will be speaking on “Why is Poverty Persistent?”.*
- III. The Economist of the year – for all SIU students in December 2018*
- IV. The Conference on the “Future of Jobs” in February 2019*

I welcome you to share your invaluable thoughts through emails, open door interactions in my office between 10.30 am and 11.00 am (Monday to Friday) and not just wait for the open house to voice your concerns. I would like you to establish and nurture a warm relationship with your entire faculty, who I am sure, will play the role of a friend, a guide and philosopher. We at SSE, pledge our commitment to making our students not only employable but also globally competent citizens and look forward to your enhanced participation in class and outside – exhibiting renewed vigor and enthusiasm in organizing the co and extra-curricular activities this new term. Wishing each of you a happy and successful experience at SSE,

Dr. Jyoti Chandiramani

*Director- Symbiosis School of Economics &
Dean Faculty of Humanities and Social Science*



1.4. *Introductory Notes*

At SSE, we are committed to promote excellence in teaching, research and learning while creating an enriching educational experience using latest tools and techniques, combining traditional and modern pedagogy. The Five Core Values of NAAC (National Assessment and Accreditation Council) are embedded in our delivery mechanism, which includes:

1.4.1. *Contributing to national development*

- Economics as a discipline is deeply connected with the development of a nation. The papers taught at SSE equip the students with knowledge related to growth, development and sustainability.
- SSE is sensitive to the educational requirements of the people from various parts of India related to the discipline of economics
- Students and faculty members are encouraged to undertake research projects of national importance.
- Many faculty members are invited to present papers at National and International conferences and deliver invited talks.
- In terms of employability, there is also valuable addition to the vibrant service sector of the Indian economy.
- Instilling the principles of Swacchh Bharat Abhiyan

1.4.2. *Fostering global competencies among students*

- SSE with its emphasis on innovative teaching, participatory academic practices strive to cater to the needs of industry (local and national) and society.
- The curriculum includes 21st century global competency skills such as ICT and Diversity
- Students of the Master's program and even some undergraduate students are increasingly giving oral presentations at national and international conferences and writing papers for submission relevant journals.
- Students are encouraged to attend summer schools at overseas universities as a part of internationalization as a key mission at the university
- SSE has introduced the following Centres: i) Centre for Academic Writing ii) Centre for Quantitative Learning and Applications - these centres prepare our students for a global career – equipping them with skill sets that will enable them to compete with the best in an ever expanding and developing

1.4.3. Inculcating a sound value system among students

- SSE seeks to inculcate moral and ethical values among the students by initiating/promoting following activities:
- The very systems that prevail, throw light on the high standards of morals and ethics practiced at the school
- Organizing guest lectures that throw light on these issues
- Transparency in administrative and evaluation processes is aimed at inculcating ethical values among students
- Encouraging students to hold value oriented cultural activities, engage in social service campaigns, and give back to the society.
- International students are warmly welcomed and face no discrimination.
- Gender parity, inclusive policies and sensitization of students to relevant issues are discussed and debated in class

1.4.4. Promoting use of technology

- SSE promotes among the faculty, students and administration an optimal use of the technological resources and ICT for academic benefits.
- Campus-wide availability of Wi-Fi
- Many important aspects such as examinations, admissions etc. are computerized (through the University managed services software's)
- Use of audio visual aids and software packages in pedagogy
- Curiosity (academic administration related software)
- Digital databases/ journals in the library
- Students have access to databases like JStor, EPW and Prowess and are trained in statistical soft wares to enable them to develop data-based decision-making skills.
- ERP and Tally in the administration

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1.4.6. *Quest for excellence*

- SSE a relatively new institute strives to promote excellence in teaching, research and learning by adopting best practices.
- Eminent contributors from the field of social sciences are invited on a regular basis to engage with students and faculty alike.
- The curriculum has been run through both eminent academicians and people from the industry to meet the standards of excellence and market requirement.
- Faculty are constantly encouraged to enhance their teaching and research quotient through exposure to FDPs / Conferences/ Seminars/ Workshops.
- Internal Quality Assurance Committee ensures that the quality of administrative and academic activities is monitored systematically and regularly.
- Students are encouraged to participate in academic, cultural and sports contests to ensure all round development. SSE houses many student clubs for the same.

1.5. *SSE: Key Differentiators*

- Rigorous and ever evolving curriculum with dynamic pedagogy.
- Continuous evaluation through internal and external assessments – providing opportunity for classroom participation, innovative assessments besides semester end examinations and class tests.
- Co-curricular and extra-curricular activities through eleven active clubs.
- Suitable infrastructure and facilities – ICT enabled lecture rooms, Library, Wi-Fi enabled campus, a well-equipped Gymnasium, Canteen, Health Care Centre, Auditorium, Hostel Accommodation (limited seats) and ICT Centre.
- The parents have access to the progress reports of their wards through a Parent Information System facilitated by the Curiosity Software.
- Unique International Collaborations: SSE through the Symbiosis Centre for International Education (SCIE) facilitates the Global Immersion Programme.
- The Centre for Academic Writing supports students in writing essays, papers and reports of various types. It also publishes an annual journal – Economical Script's-that is a compilation of outstanding academic writing by the students.

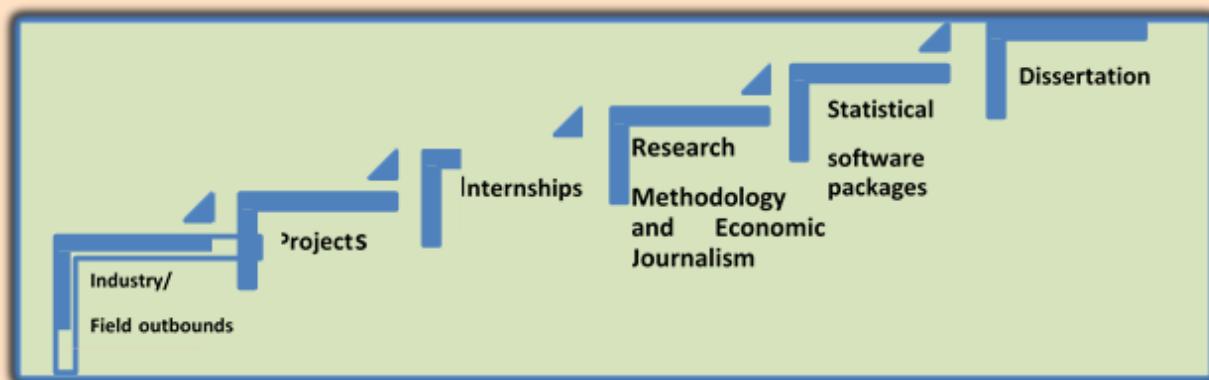
- The Centre for Quantitative Learning and Applications facilitates advanced level data analysis and statistical software training for the students.
- Faculty and students have access to Online Databases like JStor, CMIE Prowess, Economic and Political Weekly and so on.

1.6. SSE: Five Innovative Practices

1.6.1. Project Based Learning

- The learning experience at SSE is skillfully merged with the Theoretical Framework of the course content through classroom teaching + field visits + discussion of cases in class while simultaneously striking a good blend between theory and real life cases.
- Students are also exposed to project based learning (including primary and secondary research methods), making a proposal and report writing.
- This is further supported by internships, which each student has to undergo
- A course on Research Methodology and Software packages are taught to help the students skillfully graduate towards doing a good piece of work for the dissertation – required to be submitted at the end of the Semester VI
- Outcome of this method is that the students are well trained within an interdisciplinary framework and are trained and equipped to undergo education at the Post Graduate level. They are capable of undertaking evaluation based tasks and preparing reports in the work place.

Figure 1 Student's Skill Development: Step-by-step Approach



1.6.2. *Group Counselling - Career Counselling*

A qualified counsellor has been appointed at SSE – since 2011 (earlier as a visiting faculty and later since 2014 as an adjunct faculty) to interact with the students from TY (B.Sc.) + FY (M.Sc.) +SY (M.Sc.) each year. The students meet as a group comprising of 5-6 members and feel free to discuss multiple issues over a cup of coffee or tea. They share their career goals and future directions, their anguish and anxiety and through the medium of the interactive session with the counsellor and their peers collectively. This exercise helps them to see their goals in the right perspectives, clearing their doubts and wrong notions. This practice brings to light the student's perspective and sensitivities and forms a barometric indicator about the changes that may be required to be undertaken at the institute level from time to time. The multiple outcome of this exercise results in the following:

- Students sharing their future plans
- Students confusions and anxieties may be addressed
- Counselling for students (both career and otherwise)
- Barometric Indicator of changes to be incorporated

1.6.3. *One-week Induction Program*

- The institute introduced a one-week induction program for incoming students from academic year 2012-13 onwards. Under this program, the student is informed about the following:
 - Academic rules and regulations
 - About the given a flavour of what to expect academically and what we expect from the students
 - Exposure to various software that he will be using in the future and
 - The opportunities that lie ahead at the end of the course. The main highlights of induction program are as follows
 - Address to students and their parents regarding academic and administrative rules and regulations and anti-ragging measures
 - Introduction to faculty and the mentor system
 - Guest lectures by experts from Industry and academia
 - Overview of the program structure and curriculum
 - Hands-on introduction to software which they will be using in later years
 - They are taken for a visit to the Symbiosis International University, Lavale
 - They are also taken for an outbound programme – which acts like an ice breaker as well as to provide information about heritage of the city.
- Feedback is taken from the students at the end of the induction program and their inputs are considered while designing and planning the induction program for the future. Hence, as a result of this program, the student is acclimatized to the Institute and its rules and regulations and also gets a flavour of what to expect in their experience in the academic years of the Programme.

1.6.4. *Introduction of Centre for Quantitative Learning and Applications and Centre for Academic Writing*

1.6.4.1. *Centre for Quantitative Learning and Applications*

The centre supports researchers with advanced level training within the analytical and quantitative disciplines of economics, econometrics, finance and accounting. This centre facilitates advanced level data analysis and statistical software training like SPSS, R and SAS Training for the students and researchers to enhance their analytical capability. The Centre was established keeping in mind the high degree of quant required for M.Sc. & B.Sc. (Economics) Honours Programme. The Centre will shortly be introducing various modules for students to prepare and train them for BIG DATA ANALYTICS, which is the present requirement in the job market.

1.6.4.2. *Centre for Academic Writing*

This centre offers numerous facilities to students about any writing difficulty, from questions about grammar to matters of style, including difficulties like shaping papers, writing essays and reports of various types, presenting scientifically researched information and others. The Centre has been established after realizing the limitations and constraints faced by students while writing answers, essays, commentaries, research papers, reports, etc.

1.6.5. *Mentorship Programme & Remedial Teaching*

Students often are bestowed with different learning abilities and this impacts their academic performance. To enrich the learning experience and to ensure that no child is left behind in their academic pursuits - learning support is identified in the following manner:

1.6.5.1. *Special remedial classes*

These are arranged for the students after assessing the class performance, test results and end semester examination results or if faculty feedback is not very encouraging and students have complained about the same. These classes form an integral part of the academic exercise. They may take the shape of special classes on Saturdays – or before the semester commences, to clear doubts before the next high level course is introduced or before an examination is scheduled. The students may at times register for the remedial classes and teachers design special teaching modules to cater to the individual needs of these students.

1.6.5.2. *Mentorship Programme*

- Students with high academic scores and good communication skills mentor students facing challenges in understanding certain courses.
- Also when the fresh batch of students who have just registered for the Programme – face adjustment challenges – academic or any other – the mentor acts like buddy, friend and guide.
- The mentorship or buddy practice is also followed with Student Exchange Programmes – (for students visiting the institute from various foreign universities)

1.6.5.3. *Outcome*

The timely availability of a person who can address the above mentioned concerns goes a long way in easing the burden of adjustments for students at SSE - Pune. The aim of the mentor-mentee programme is to ease these tensions so that the student can devote all his energies to constructive tasks.

1.7. *SSE: Best Practices*

1.7.1. *Open Door Policy*

Being a very young institute and with a vision towards evolving and being recognized as one of the best institutes – the leadership follows an open door policy at the institute. From faculty to staff and the students, it is encouraged to bring to light the limitations, difficulties and even solutions are sought or policies framed in an extremely participatory manner.

This result in building a Participative Environment – We are continuously striving for being inclusive in decision making. There is a consistent effort made to welcome critical feedback from students, faculty and staff. Regular open houses and student consultative committee meetings are conducted to collect evidences regarding teaching learning process, life on campus, library and other aspects. This results in prioritized action and remedial measures to address satisfaction e actions taken on the suggestions given by students are conveyed to them during subsequent meetings. This arrangement helps to encourage the students to give their inputs for better functioning of the departments to the satisfaction of all stakeholders

1.7.2. *Good Student Teacher Interface*

The teachers are encouraging and are continuously working towards better student teacher interface. Courses like Economic Journalism, Research Methodology, Students Dissertation, Internships and Project Base learning – such courses require one on one interaction with faculty. These personal interactive sessions amount to invaluable attention being directed towards each student – aiding the learning outcomes to a very large extent and fostering better student-teacher relationship

1.7.3. *Faculty plays a big role and goes beyond teaching towards institutional building*

A young institute requires even more pro-active participation by young and energetic faculty to play an active role in institute building. All faculty are given different portfolios like admission process, media-plan and advertisement policy, examinations processes, preparing the academic calendar, organising events such as guest lectures, workshops, interactions and face to face discussions; student outbound activities which are overviewed and overseen by the faculty with the involvement of the admin staff. This goes a long way in nurturing leadership abilities and capacity building of the faculty. These roles are rotated after a couple of years to get the faculty to understand each aspect of the institute, towards creation of leaders of tomorrow.

1.7.4. *Reforms in the examination system*

The examination system in any institute should be sacrosanct with minimum lapses and incorporating changes in rules that are introduced by the University from time to time. These rules require timely dissemination of this information to all concerned. Therefore, to ensure smooth functioning of the examination system the following changes and reforms have been initiated:

- A Faculty/ faculties have been appointed to oversee the examination process
- Detailed SOP for the entire examination process has been created. This has resulted in:
- Streamlining of the entire examination process
- Delegation of responsibilities
- Distribution of tasks, each with independent and well defined deadlines
- Easier learning curve for new faculty

1.7.5. *Outcome*

The SOP is revisited regularly and at the end of each semester – mistakes and errors are analysed and changes in the SOP are carried out to ensure high level of efficiency and minimise the percentage and extent of errors.

Preparation of responsibility manual and SOPs: All important activities and tasks have a detailed Standard Operating Procedure (SOP) prepared to ensure efficient administration of these tasks. This has led to better delegation and understanding, lesser errors, better levels of efficiency in implementation of responsibilities, which is vital for the functioning and continuous improvement of any growing institute. Detailed SOPs have been prepared for all the primary functions of the department, namely the admission process, teaching-learning process, examination system, time-table preparation, mentor programme etc. These SOPs are also revisited from time to time to make necessary changes and corrections as and when required.

1.8. *Important Numbers*

Pune STD Code 020
SSE Office: 020-25672520, 020-25652444 Extension: 249 Fax: 020-25675406

Symbiosis International University 020-28116208, 28116200

SIU Office 020-28116200
SIU Fax 020-28116206
Registrar 020-28116218

Anti-Ragging Helpline of the University: 9552525725

At SSE the nodal officer for Anti Ragging Complaints is Ms. Deepashri Bhagwat – Sr. Office Superintendent
Email: deepashri.bhagwat@sse.ac.in ; Mobile No: +91 9767549640

SCHC 020-25678680/ 9552525651, (email - mo@schcpune.org)
Symbiosis Society Office 020-25652444

Symbiosis Society Fax	020-25659209
Emergency Healthcare (SCHC) Ambulances (Hospitals)	Police: 100 Fire: 101 Ambulance: 101 25655023 / 25655362 Ratna: 25671686 Jehangir: 26122551, 26997115 Sahyadri: 25403000
Blood Bank Municipal Corporation	Ruby Hall (24hr): 26136318 Sahyadri: 25403232 PMC: 25501000 /144 PCMC: 27425511/12/13/14, 27470082
Electricity (MSEB)	1800-2334565(Call Centre) Postal Enquiry: 26125516 RTO 26696056
MTDC (Tourist Guide) Airlines:	020-30521464 / 9326050703 Indian Airlines (City office): 26051112, 26052147 (Airport): 26689433 Jet Airways (City Office): 26137181 (Airport): 26685591
Passport Office Railways (Enquiry) Bus (MSRTC) Taxi Stand (Pune – Mumbai)	25675421 26126575 26122591/6218 26135784

1.9. *Important Dates*

SYMBIOSIS SCHOOL OF ECONOMICS	
Academic Year 2020-21	
B.Sc. (Eco) Hons. 2020-23 Batch Sem I	
EVENTS	DATES
Semester Commences	06-July-2020
Semester End	30-Dec-2020
B.Sc. (Eco) Hons. 2020-23 Batch Sem II	
Semester Commences	04-Jan -2021
Semester End	25-June-2021

The above mentioned dates are tentative. Changes if any will be communicated.

1.10. List of holidays

Date	Day	Reason
15 – Aug – 2020	Saturday	Independence Day
22 –Aug -2020	Saturday	Ganesh Chaturthi
02 –Sep -2020	Wednesday	Anant Chaturdashi
02-Oct-2020	Friday	Mahatma Gandhi Jayanti
25- Dec- 2020	Friday	Christmas

*Diwali break will be informed in due course

1.1. The SSE Academic Coordination Team

- Director: Dr. Jyoti Chandiramani

1.11.1. Academic Coordinators

- SY & TY B.Sc. – Ms. Sayali Ganu
- FY B.Sc. – Ms. Riya Salunke
- Examination Coordinator: B.Sc. – Ms. Sukhada Bhide

1.2. SSE Committees 2020

** The Director is the Chairperson of all committees.

1.12.1. SSE Examination Committee

1. Dr. Deepa Gupta (Lead)
2. Dr. Niharika Singh
3. Examination coordinators - Ms. Sukhada Bhide & Mr. Shekhar Gurav.

1.12.2 SSE Library Advisory Committee

- Dr. Shrabani Mukharjee-Lead
- Dr. Bidyut Ghosh
- Dr. Varun Miglani

1.12.3 SSE Internal Complaints Committee

The Committee comprises of the following members:

- Chairperson: Dr. Jyoti Chandiramani (Director)
- Senior Faculty (Female): Dr. Deepa Gupta
- Senior Faculty (Male): Dr. Bidyut Ghosh
- Non-teaching Employees (Two): Ms. Deepashri Bhagwat, Ms. Simi Malhotra
- One member from an NGO
- Students representatives

1.12.4 SSE Grievance Redressal Cell

Senior Faculty nominated by the Director

- Dr. Bidyut Kumar Ghosh
- Dr. Khushbu Thadani
- Mr. Krishna Kanta Roy

Registrar / Office Superintendent. (Convener of the meetings and maintenance of Registry):
Ms. Deepashri Bhagwat

1.12.5 SSE Anti Ragging Team

SSE Anti Ragging Committee

The Director of the Institute- Chairperson: Dr. Jyoti Chandiramani

Member:

Dr. Deepa Gupta

Dr. Ishita Ghosh

Dr. Kalyan Shankar

Dr. Aanchal Airy

Students' representatives- Member:

Vacant – To be informed

SSE Anti Ragging Squad

The Director of the Institute- Chairperson: Dr. Jyoti Chandiramani

Faculty representatives: Mr. K.K.Roy, Dr. Ranjan Dash

Non-teaching Employees (Two): Ms. Deepashri Bhagwat, Ms. Simi Malhotra

1.12.6 SSE Academic Review Committee

Dr. Ishita Ghosh and Dr. Shrabani Mukherjee - for PG

Dr. Deepa Gupta and Dr. Khushbu Thadani - For UG

1.12.7 SSE Research Committee

Dr. Shrabani Mukharjee-Lead, Dr. Ranjan Dash, Dr. Bidyut Kr. Ghosh, Dr. Kalyan Shankar

1.12.8 SSE Institutional Social Responsibility Committee

Dr. Khushbu Thadani Lead, Dr.Varun Miglani

1.12.9 SSE Fest Committee

Mr. Tarun Khandelwal (Lead)

Members

Mr. Shailesh Bharati, Dr. Deepa Gupta & Dr. Ishita Ghosh (PIC), Coordinator

1.12.10 SSE Sports Committee

Mr. Krishna Kanta Roy –Lead,

Dr. Niharika Singh

1.12.11 SSE Projects SY

Dr. Varun Miglani, Dr. Kalyan Shankar, Dr. Deepa Gupta

1.12.12 Internship

Dr. Aanchal & Mr.Shailesh / Ms.Riya Salunke – FY BSC

Dr. Khushbu & Dr.Niharika/ Ms. Sayali Ganu - SY BSc

1.12.13 Dissertations

B.Sc. Dr. Deepa Gupta-Lead & Mr. Krishna Kanta Roy

1.12.14 SSE Internationalization Committee

Dr. Khushbu Thadani-Lead, Dr. Kalyan Shankar

1.12.15 SSE Website Committee

Ms. Shilpi Singh, Ms. Shalmali Sathe

1.12.16 SSE Internal Quality Assurance Cell

Dr. Varun Miglani-Lead, Mr. Tarun Khandelwal -Lead

1.12.17 SSE Internal NAAC Committee

Dr. Deepa Gupta, Dr. Varun Miglani, Mr. Tarun Khandelwal and the Senior Office Superintendent
(Ms. Deepashri Bhagwat).

1.12.18 SSE Placement Committee

Dr. Ashlesha Swaminathan, supported by Supported by all faculty

1.12.19 SSE ICT Committee

Ms. Shilpi Singh, Dr. Bidyut Ghosh & Mr. Janardhan Kshirsagar

1.12.20 SSE Alumni Committee

Mr. Krishna Kanta Roy—Lead, Dr. Aanchal Airy, Dr. Ishita Ghosh, Dr. Varun Miglani, Dr. Ashlesha Swaminathan

1.12.21 SSE Crisis Management Committee

Dr. Jyoti Chandiramani, Dr. Ishita Ghosh, Ms. Deepashri Bhagwat, Student representatives (GS B.Sc. and AGS M.Sc.)

1.12.22 SSE Admission Committee

Dr. Jyoti Chandiramani-Lead, Ms. Shilpi Singh, Ms. Deepashri Bhagwat, Ms. Sayali Ganu, Ms. Shweta Paranjape, Ms. Ishita Ghosh, Dr. Deepa Gupta

1.12.23 Digital and MediaMarketing

Dr. Khushbu Thadani-Lead, Ms. Shilpi Singh, Dr. Ishita Ghosh, Mr. K.K Roy

1.12.24 Centre for Academic Writing

Dr. Ishita Ghosh,

12.12.25 Centre for quantitative Learning & Applications

Dr. Shrabani Mukharjee-Lead, Dr. Bidyut Ghosh,

12.12.26 Centre for Experimental & Behavioural Economics

Dr. Ashlesha Swaminathan

12.12.27 Centre for Emerging Economy

Dr. Ishita Ghosh-Lead, Dr.Ranjan Dash

12.12.28 EOTY

Dr. Niharika Singh-Lead, Mr. Shailesh Bharati-Support, Mr. K K Roy-Support

The SSE Academic Coordination Team

- Director: Dr. Jyoti Chandiramani

Class Teachers

B.Sc. FY - Tarun Khandelwal & Shailesh Bharati

B.Sc. SY – Khushbu Thadani & Krishna Kanta Roy

B.Sc. TY –Niharika Singh & Varun Miglani

Symbiosis School of Economics Bachelor of Science (Economics) Honours Programme Structure (2019-22)

1.13.1. Objectives

- To help students to critically and objectively analyze issues related to the economy, business, public policy and society
- To develop analytical and quantitative abilities, problem-solving aptitude and skill through academics
- To rouse and encourage students to get research oriented and develop skills to undertake research projects
- To sharpen the communication and presentation skills

1.13.2. Duration

Three Years Full Time

1.13.3. Intake

130 Students

1.13.4. Reservation

- Within the sanctioned intake:
Scheduled Castes 15% b) Scheduled Tribes 7.5% c) Differently abled – 3%
- Over and above the sanctioned intake: a) Kashmiri Migrants- 2 Seats b) International Students-15%

1.13.5. Eligibility

A candidate should have passed Standard XII (10+2) or equivalent examination from any recognized Board with a minimum of 50% marks (45% for S.C./ S.T). A candidate who has appeared for his/ her Standard XII (10+2) or equivalent examination can apply. However, his/ her admission will be subject to obtaining a minimum of 50% marks (45% for S.C. / ST.)

1.13.6. Selection procedure

1. Symbiosis Entrance Test (SET)
2. Personal Interaction and Written Ability Test (PI-WAT) for shortlisted candidates based on SET

1.13.7. Medium of instruction

English

1.13.8. Programme pattern

Semester Pattern - 6 Semesters

1.13.9. Courses & specialization

As per Annexure A

1.13.10. Fee

1.13.10.1. Indian Students

- Academic Fee p.a. Rs.2,10,000 + Institute Deposit: Rs. 10,000 = Total: Rs.202000

1.13.10.2. International Students

- Academic Fee p.a. Rs. 3,15,000 + Institute Deposit Rs 10,000 = Total Rs. 3,25,000

1.13.11. Assessment

All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 40% internal component and 60% component as external [University] examination.

1.13.12. Standard of passing

The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.

1.13.13. Award of degree

Bachelor of Science (Economics) Honours will be awarded at the end of semester VI examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.



Symbiosis School of Economics, Pune
Bachelor of Science (Economics) Honours
Programme Structure 2020-23

1.	OBJECTIVE	<ol style="list-style-type: none"> 1. To enable the students to identify issues related to the economy, business, public policy, and society 2. To rigorously train the students to objectively and critically assimilate and examine information pertaining to the core, interdisciplinary and applied learnings 3. To develop analytical and quantitative abilities and problem-solving aptitude through academics 4. To encourage students to undertake research oriented activities motivated through holistic learning outcomes 5. To build human capital by honing transferable skills for advanced career pursuits 					
2.	DURATION (IN MONTHS)	36 (Full Time)					
3.	INTAKE	130					
4.	RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)		
			15	7.5	3		
		II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)		b) International Students (In Percentage)		
			2		15		
5.	ELIGIBILITY	XII (10+2) std. pass or equivalent examination from any recognized Board with a minimum of 50% marks or equivalent grade (45% Marks or equivalent grade for Scheduled Caste /Scheduled Tribes).					
6.	SELECTION PROCEDURE	<ol style="list-style-type: none"> 1. Symbiosis Entrance Test (SET) 2. Personal Interaction and Written Ability Test (PI-WAT) for shortlisted candidates based on SET 					
7.	MEDIUM OF INSTRUCTION	English					
8.	PROGRAMME PATTERN	Semester					
9.	COURSE & SPECIALIZATION	As per Annexure A					
10.	FEE		Academic Fee p.a	Institute Deposit	Total		
		Indian Students	210000	10000	220000		
		International Students (USD equivalent to INR)	315000	10000	325000		
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 40% internal component and 60% component as external [University] examination.					

12.	STANDARD OF PASSING	The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.					
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Bachelor of Science (Economics) Honours will be awarded at the end of semester VI examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.					
14.	NATURE WISE DISTRIBUTION OF CREDITS						
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	24	0	0	0	0	0	24
2	20	4	0	0	0	0	24
3	18	8	0	0	0	0	26
4	17	7	0	0	0	2*	24
5	13	8	0	0	0	0	21
6	18	7	0	0	0	0	25
Total	110	34	0	0	0	0	144

* Satisfactory completion of the non letter grade courses 'Integrated Disaster Management' and 'Fitness for Life' is mandatory for the award of degree.

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

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Celebrating 50 Years of Excellence

Symbiosis School of Economics, Pune
Bachelor of Science (Economics) Honours
Programme Structure 2020-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Semester : 1							
Generic Core Courses							
T2484	0602220101	Core Environmental Studies		4	100	0	100
T2534	0602220102	Foundation of Mathematics		4	40	60	100
T2203	0602220103	Statistics for Economics I		4	40	60	100
T6651	0602220104	Macroeconomics I		4	40	60	100
T6654	0602220105	Microeconomics I		4	40	60	100
T6663	0602220106	Indian Economy I		4	40	60	100
			Total	24	300	300	600
Semester : 2							
Generic Core Courses							
T2204	0602220201	Statistics for Economics II		4	40	60	100
T6129	0602220202	Indian Economy II		4	40	60	100
T6346	0602220203	Mathematical Economics I		4	40	60	100
T6652	0602220204	Macroeconomics II		4	40	60	100
T6655	0602220205	Microeconomics II		4	40	60	100
			Total	20	200	300	500
Generic Elective Courses Group							
T2111	0602220206	Business Accounting		4	40	60	100
T2965	0602220207	Business Accounting and Financial Analysis		4	40	60	100
			Total Required Credits	4	40	60	100
Semester : 3							
Generic Core Courses							
T1135	0602220301	Law and Economics Theory		4	40	60	100
T6134	0602220302	Theory and Application of Public Finance		4	40	60	100
T6135	0602220303	Introductory Econometrics		4	40	60	100
T6141	0602220304	Development Economics		4	40	60	100
T6902	0602220305	Internship with NGO		2	50	0	50
			Total	18	210	240	450
Generic Elective Courses Group							
T6347	0602220306	Mathematical Economics II		4	40	60	100
T6277	0602220307	Theory of Political Economy in India		4	40	60	100
			Total Required Credits	4	40	60	100
Generic Elective Courses Group							
T6149	0602220308	Money, Banking and Finance		4	40	60	100
T6276	0602220309	Public Administration and Policy		4	40	60	100
			Total Required Credits	4	40	60	100
Semester : 4							
Generic Core Courses							
T6133	0602220401	International Economics		4	40	60	100
T2208	0602220402	Research Methodology		4	100	0	100
T6803	0602220403	Primary research		3	75	0	75
T6803	0602220404	Secondary research		3	75	0	75
TL003	0602220405	Liberal Arts		3	75	0	75
T4005	0602220406	Integrated Disaster Management *		0	0	0	Non Letter Grade
TH4095	0602220407	Fitness for Life *		0	0	0	Non Letter Grade
			Total	17	365	60	425
Generic Elective Courses Group							
T6394	0602220408	Introductory French		3	75	0	75
T6395	0602220409	Introductory German		3	75	0	75
T6396	0602220410	Introductory Spanish		3	75	0	75



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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Total Required Credits				3	75	0	75
Generic Elective Courses Group							
T2112	0602220411	Indian Banking and Financial System		4	40	60	100
T2104	0602220412	International Financial Management		4	40	60	100
Total Required Credits				4	40	60	100
Semester : 5							
Generic Core Courses							
T6736	0602220501	Economic Journalism		3	75	0	75
T3245	0602220502	IT Applications in Economics		2	50	0	50
T6364	0602220503	Microeconomics III		2	50	0	50
T6365	0602220504	Macroeconomics III		2	50	0	50
T6701	0602220505	Dissertation I		2	50	0	50
T6902	0602220506	Internship with Business Unit		2	50	0	50
Total				13	325	0	325
Generic Elective Courses Group							
T2456	0602220507	Financial Management		4	40	60	100
T2966	0602220508	Introduction to Corporate Finance		4	40	60	100
Total Required Credits				4	40	60	100
Generic Elective Courses Group							
T6142	0602220509	Intermediary Econometrics		4	40	60	100
T6143	0602220510	Agricultural Economics of India		4	40	60	100
Total Required Credits				4	40	60	100
Semester : 6							
Generic Core Courses							
T2108	0602220601	Portfolio Management		4	40	60	100
T6139	0602220602	Economic Thought		4	40	60	100
T6144	0602220603	Environmental Economics		4	40	60	100
T6278	0602220604	International Relations		4	40	60	100
T6701	0602220605	Dissertation II		2	50	0	50
Total				18	210	240	450
Generic Elective Courses Group							
T2221	0602220606	Operations Research		3	75	0	75
T2968	0602220607	Introduction to Behavioral Finance		3	75	0	75
T6735	0602220608	Industrial Organisation		3	75	0	75
Total Required Credits				3	75	0	75
Generic Elective Courses Group							
T2967	0602220609	Taxation		4	40	60	100
T2104	0602220610	International Financial Management		4	40	60	100
Total Required Credits				4	40	60	100



Celebrating 50 Years of Excellence

**Symbiosis School of Economics, Pune
Bachelor of Science (Economics) Honours
Programme Structure 2020-23**

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester1	4	20	24	600
Semester2	0	24	24	600
Semester3	2	24	26	650
Semester4	16	8	24	600
Semester5	13	8	21	525
Semester6	5	20	25	625
Total	40	104	144	3600

Course Details

Course Name: Microeconomics I

(60 Hrs) Number of Credits: 4

Learning Objective(s):

1. The course prepares the students to review microeconomic concepts for better grasping of ideas.
2. The course helps to relate and practice examples from real world.

Pedagogy:

The teaching method in the classroom would comprise of lecturing, explaining, questioning as well as collaborating. The teacher will lecture in each preplanned session of an hour's duration on the subtopic of the syllabus assigned for the day according to the teaching plan. He or She can demonstrate the phenomenon with real life examples. As supportive aids the teacher can use various audio visual tools like power point presentation, white board etc. As recapitulating exercises questioning can be a part of the session. The teacher will also play the role of the facilitator of learning by collaborating amongst the students in team work such as project assignments, group discussions etc.

Learning outcome:

On the successful completion of the course, the student should be confident about the following.

1. Student will be familiar with the terms and concepts of microeconomics
2. They will have the basic skills required to solve problems.

Course Outline

1 Economics and Microeconomics:

8 Hrs

What is economics? Branches of Economics. Nature and scope of economics, positive and normative approach, what is microeconomics? Economic agents and their activities as consumer, producer, investor.

2. Theories of Consumer Behaviour:

30Hrs

- a. The neo-classical utility analysis; Introduction; Assumptions of Utility Analysis; Total Utility vs. Marginal Utility; The Law of Diminishing Marginal Utility; The Law of Equi- Marginal Utility.
- b. Demand and Law of Demand: Meaning of Demand, factors Influencing Demand; an Individual's Demand Schedule and Curve; The Market Demand Curve and Schedule; The Law of Demand;
- c. The Indifference Curve Theory: Introduction; Indifference Curves; Assumptions of Indifference Curve Analysis; Properties of Indifference Curves; Marginal Rate of Substitution; Price-Income Line; Consumer's Equilibrium; Income Effect; Substitution Effect; Price Effect; The Separation of Substitution and Income Effect, To Derive Demand Curve from Price Consumption Curve; Compensated Demand Curve; Superiority of Indifference Curve over Utility Analysis;
- d. Revealed Preference Theory of Demand: Introduction; Choice Reveals Preference: The Law of Demand; Derivation of the Demand Curve from Revealed Preference Theory.
- e. Elasticity of demand: Introduction; Price Elasticity of Demand; Cross Elasticity of Demand; Income Elasticity of Demand; Factors Affecting Price Elasticity of Demand; Importance of the Concept of Price Elasticity; Applications.

- f. Duality: The Expenditure Function, Indirect Utility Function, Roy's Identity, Shepard's Lemma, Slutsky Equation.
- g. Choice under uncertainty- utility function and expected utility, risk aversion and risk preference (concepts only)

3. Producer's Behaviour: **22 Hrs**

- a. Technology, Production Functions and Isoquants, short run and long run, production with oneand two variable inputs, total average and marginal products, law of diminishing return, marginal rate of technical substitution, elasticity of substitution, economics of scale.
- b. Types of production functions- Cobb-Douglas, fixed-coefficient and CES functions.
- c. Cost structure-implicit cost, explicit cost, accounting cost, Opportunity Costs; Private and social Costs; sunk cost, economic cost, fixed cost, variable cost, total, average and marginal cost. Determinants of Short run cost, Cost Curves, cost minimization and expansion path, Short run versus long run cost curves, economies of scope.
- d. Revenue - Total Revenue, Average revenue, Marginal Revenue - Relation between Average Revenue, Marginal Revenue and Price Elasticity of Demand, Profit maximization.

Books Recommended:

1. R S. Pindyck and D.L. Rubinfeld, (2000), Microeconomics, 3rd edition, Prentice Hall, India.
2. G.S. Maddala and E. Miller. 1989. Microeconomics. McGraw-Hill International Editions. (or later edition)
3. Lipsey and Chrystal. 2007. Economics. Oxford University Press.
4. H R. Varian. Intermediate Microeconomics, a Modern Approach. Affiliated East-West Press.
5. H. Gravelle and R Rees. Microeconomics. Addison Wesley Longman Limited.

Course Name: Macroeconomics I

(60 hours) Number of Credits: 4

Learning Objective(s):

3. The course aims to illustrate concepts, principles and theories of macroeconomics using verbal, graphical and simple mathematical techniques.
4. The course objective is to relate the specific facts and terminologies in the principles of macroeconomics with the practical world problems, to enable students to discover and comprehend problems in the key areas using appropriate tools.

Pedagogy:

Class room teaching, active discussions on recent macroeconomic topics, article review, etc.

Method of Instruction:

- Lectures/Presentations by the instructor
1. Discussion (Case studies/Quizzes/Videos/Research Papers)
 2. Group work/Presentations by students

Course Objective:

1. To provide a dynamic knowledge of Macroeconomics.
2. To visualize and analyze Macroeconomic problems faced by economies
3. To look at the practical applications of the learning

Learning outcome:

1. Define and understand basic macroeconomic terms and concepts.
2. Learn the various theories of macroeconomics evolved through time.
3. Understand the linkages among the macroeconomic factors.
4. Apply the tools of analysis to predict the economic consequences of various events.

Course Outline

1. Macroeconomics: Basic Concepts

Macroeconomics as a Branch of Economic Analysis -- Concepts, Objectives & Issues ---economic Models – Ex-post and Ex-ante -- Withdrawals and Injections --- Continuous analysis and Period Analysis –Time Series and Cross Section Data ---Concept of Money and Real Variables.

2. National Income Accounting

The Circular Flow of Income -- Meaning and Definition of National Income and National Product – National Expenditure --- Methods of National Income Estimation – Production, Income and Expenditure Method --- Problems in Measuring National Income --- National Income Estimation in an Open Economy --- National Income and Social Welfare.

3. The Determination of Equilibrium Output and Simple Keynesian Model

Output, Employment and Business Decisions ---- Saving-Investment Analysis --- Basic Hypotheses --The Keynesian Consumption Function --- Components and Determinants --- The Consumption Ratchet --- Saving Function – Keynesian Investment Multiplier -- Paradox of Thrift --- Long Run Consumption Function -- Duesenberry's Relative Income Hypothesis -- Friedman's Income Determination Model --- Life Cycle Hypothesis.

4. IS- LM Analysis:

Investment Function – Marginal Efficiency of Capital --- Determinants --- MEC and MEI --- Interest Elasticity of Investment --- PV Criterion --- The Goods Market -- IS Curve --- Slopes and Shift Factors --- Multipliers ---- Change in Government Spending ---- Balanced Budget Multiplier ---the Money Market --- Keynesian Liquidity Preference Theory ---- LM Curve --- Derivation and Shift --- Liquidity Trap --- Regressive Expectations model --- Portfolio Balance Approach.

5. Classical Model of Income and Employment

Simple Classical Model --- Effect of Change in Money Supply ---- Shift of Labour Supply Function --- Shift of Production Function --- Generalised Classical Model --Wicksell's Formulation of Classical Model.

Books Recommended:

- Dornbusch, Fischer and Startz- Macroeconomics ([amazon link for reference](#))
- Froyen, Richard T.- Macroeconomics: Theories and Policies ([amazon link for reference](#))
- Andrew B. Abel, Ben Bernanke, Dean Croushore -Macroeconomics, Global Edition Paperback
- N. Gregory Mankiw- Macroeconomics ([amazon link for reference](#))
- Economic Survey of India - Latest Issue
- GOI Latest Policy Documents

Course Name: Indian Economy I

(60 hours) Number of Credits: 4

Learning Objective(s):

This course aims to relate to the evolution of the Indian Economy in terms of different aspects such as infrastructure development, growth of sectors such as transportation, power, mineral resources and telecommunication and the challenges these sectors are facing today.

The course will demonstrate how National Income and growth patterns and contributes to the various sectors.

It shows Demographic trends in the country, utilization patters and the recent developments in the human resource use.

It illustrates basic Indian economic problems such as poverty and unemployment, their causes, extent and tries to find solutions for such economic and social maladies.

It applies the concept of economic planning in the light of given endowments and challenges and highlights the importance of the Five Year Plans in the development of the country.

Pedagogy:

Every topic will be briefly introduced in class by the instructor; main points of study will be highlighted with the help of PowerPoint Presentations followed by discussions on the material provided in class or through email. Relevant articles/ case studies will be circulated wherein there will be group discussions and debates in class. Videos pertaining to the subject topics will be aired.

Method of Instruction:

1. Lecture
2. Class Discussions/ Debates
3. Case Studies

4. Videos
5. Articles/ Research Paper

Learning Outcomes:

- The course will help students get oriented to the basic concepts of National Income which is vital to understand the trends of economic growth of a country.
- It will help to understand the issues of poverty line, BPL population, the causes of the unending problem of poverty in India and possible solutions for the same.
- It gives an insight into the various schemes started by the Government of India to eradicate social issues such as poverty, unemployment. It also enlightens one pertaining to social infrastructure policies related to health, education, transportation and communication.
- It helps reproduce own views about the recent developments in the above mentioned sectors and the challenges faced by them.
- The students will be able to analyze and predict where the Indian Economy is heading.

Course Outline

1. Indian Economy: An Overview:	6 Hrs
An Overview of Indian Economy; National Income- Introduction to National Income Accounting, Concepts of GDP and national income, Trends In National Income, Measurement of National Income, GDP, personal and private income, Nominal and real GDP, Limitations of the GDP concept.	
2. Resources of India:	10 Hrs
Mineral Resources- Availability and Problems, Mineral Policy of India, Energy- Commercial sources of Energy, Availability and Problems, Energy regulation reform.	
3. Population Growth And Poverty:	20 Hrs
Demographic Trends, India's Demographic Stage, National Population Policy, Problem Of Urbanization, Causes And Consequences Of Rapid Urbanization, Suggested Urban Policy. Poverty-Concept And Types, Causes Of Poverty And Poverty Eradication Programmes, Unemployment-Types, Magnitude, Causes And Various Measures And Schemes To Tackle The Problem Of Unemployment.	
4 Economic Planning in India:	12 Hrs
Meaning, Features and Objectives of Economic Planning, Importance of Plans in the development of an Economy, Financing of the Plans, Five Year Plans, 11th and 12th FYP, Evaluation of Economic Planning.	

5	Planning and Social Infrastructure:	12 Hrs
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Linkage between Infrastructure and Economic Development, Social Infrastructure policies, Role of the government, Role played by the Private Sector, Public- Private Partnership; Telecom Sector, Transportation Sector, Health and Education Sector - Introduction, policies, development and limitations in the Indian Economy.

Books Recommended

Misra & Puri, Indian Economy
 Dutt & Sundram, Indian Economy
 Uma Kapila, Indian Economy since Independence
 Planning Commission Reports
 Census Reports
 Centre for Monitoring Indian Economy – Recent Issues Economic Survey of India - Latest Issue
 GOI Latest Policy Documents

Course Name: Core Environmental Studies

(60 hours) Number of Credits: 4

Learning Objective(s):

This course will reinforce and expand on student knowledge of both physical and life science by applying them to environmental concepts.

It will provide another option for students interested in studying science.

It also helps to create environmental awareness among the students by protecting and conserving the environment.

This can make a student a globally responsible citizen.

Pedagogy:

1. Class room teaching
2. PPT presentations , Documentaries and Videos
3. Field Visit and study of local issues.

Pre-learning:

12th with Environment Science as one of the subject

Course Outline:

1 The Multidisciplinary Nature of Environmental Studies	(15 hours)
Definition, scope and importance Need for public awareness Natural Resources	
Renewable and non-renewable resources Natural resources and associated problems	
Forest Resources: Use and over-exploitation, deforestation, case studies, Timber extraction, mining, dams and their effects on forests and tribal people.	
Water resources: Use and over utilization of surface and ground water, floods, drought, conflicts over water, dams- benefits and problems.	
Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.	
Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.	
Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	
Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification	
Role of an individual in conservation of natural resources	
Equitable use of resources for sustainable lifestyles	

2 Ecosystems

15 Hours

Concept of an ecosystem

Structure and function of an eco-system Producers, consumers and de-composers Energy flow in the ecosystem Ecological succession

Food chains, food webs, and ecological pyramids

Introduction, types, characteristic features, structure and function of the following ecosystem:-

Forest ecosystem Grassland ecosystem Desert ecosystem

Aquatic ecosystem (Ponds, streams, lakes, rivers, oceans, estuaries)

Bio-diversity and its conservation

Introduction – Genetic, species and eco-system diversity Biographical classification of India

Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.

Bio-diversity at global, national and local levels India as a mega-diversity nation,
Hot-spots of bio-diversity

Threats to bio-diversity: Habitat loss, poaching of wildlife, man-wildlife conflicts. Endangered and endemic species of India

Conservation of bio-diversity: In situ and Ex-situ conservation of bio-diversity.

3 Environmental Pollution 15 Hours

Definition, Causes, effects and control measures of: -

Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution, Thermal Pollution, Nuclear Hazards

Solid Waste Management: Causes, effects and control measures of urban and industrial wastes.

Role of an individual in preventive of pollution, Pollution case studies

Disaster management: Floods, earthquake, cyclone and landslides Social Issues and the Environment

From unsustainable to sustainable development Urban problems related to energy

Water conservation, rain water harvesting, watershed management

Resettlement and rehabilitation of people, its problems and concerns – Case studies

Environmental Ethics: Issues and possible solutions

Climate change, global warming, acid rain, ozone layer depletion Nuclear accidents and holocaust

Case Studies Wasteland reclamation

Consumerism and waste products Environment Protection Act

Air (Prevention & Control of Pollution) Act Water (Prevention & Control of Pollution) Act Wildlife Protection Act

Forest Conservation Act

Issues involved in enforcement of environmental legislation Public awareness

4 Human Population and the Environment 15 Hours

Population growth, variation among Nations
Population explosion – Family Welfare program

Environment and human health
Human Rights
Value Education
HIV/AIDS
Women & Child Welfare
Role of Information Technology in Environment and Human health
Case Studies

Field Work

Visit to a local area to document environmental assets- river/forest/grassland/hill/mountain Visit to a local polluted site – Urban/Rural/Industrial/Agricultural

Study of common plants, insects, birds

Study of simple eco-systems -ponds, river, hill slopes, etc

Books Recommended

1. Perspectives in Environmental Studies by Kaushik and Kaushik (2011) New Age International, Publications, New Delhi
2. A Text Book of Environmental Science by Arwin Kumar (2010) APH Publishing Corporation, New Delhi
3. Environmental Studies Basic Concepts by V K Ahuwalia (2013) Published by TERI (The Energy & Resources Institute) Darbari Seth Block Habitate Place Lodhi Road, New Delhi- 11 0003, India.
4. Students are also requested to refer and go through following Monthly and Fortnightly Terra Green by TERI, National Geographic, Down to Earth by Centre for Science and Environment.
5. Mathematics for Management and Economics – G. S. Monga.
6. Business Mathematics – V. K. Kapoor.
7. Higher Algebra – S.K. Mapa

Course Name: Foundation of Mathematics

Number of Credits: 4

Learning Objective(s):

1. To comprehend basic concepts in mathematics
2. To comprehend the application of mathematics in social sciences

Pedagogy:

1. Presentation of concepts followed by intensive problem solving

2. Lectures (for introducing the topics)
3. Tutorials (for practicing the problems/sums)

Course Outline:

1 Progressions	5 Hrs
2 Coordinate Geometry – Distance formula, and straight lines	4 Hrs
3 Matrices: Introduction to matrices, types, matrix algebra, determinants, inverse of a matrix using adjoint method and elementary row operations, rank of a matrix, system of linear equations	8 Hrs
4 Set Theory and Functions: Definitions, Types of functions	4 Hrs
5 Limits: Concept, Important results on limits	4 Hrs
6 Continuity: Concept, Properties of continuous functions	2 Hrs
7 Differentiation: Basic Concepts, rules	7 Hrs
8 Applications of Differentiation: Maxima and Minima	4 Hrs
9 Partial Differentiation	3 Hrs
10 Integration: Basic concepts, rules	6 Hrs
11 Indefinite and Definite Integrals	4 Hrs
12 Improper integrals: Gamma Functions	4 Hrs
13 Differential Equations, Order and Degree, General Solution of Differential Equations by Direct Integration, Variable Separable form, Homogenous Differential Equations, By Substitution, Differential Equations of First Order and First Degree	5 Hrs

Books Recommended

1. Schaum's Outline of Theory and Problems of College Mathematics – Frank Ayers Jr. and Philip A. Schmidt – McGraw Hill
2. Schaum's Outline on Beginning Calculus – Elliot Mendelson – McGraw Hill
3. Schaum's Outline on Advanced Calculus – Robert C. Wrede and Murray R. Spiegel – McGraw Hill
4. Mathematics for Economists – B.C. Mehta and G.M.K. Madnani.
5. Mathematics for Management and Economics – G. S. Monga.
6. Business Mathematics – V. K. Kapoor.
7. Higher Algebra – S.K. Mapa

Course Name: Statistics for Economics I

(60 hours) Number of Credits: 4

Learning Objective(s):

- To enable a student to present data in graphical and tabular form
- To enable a student to summarize data sets using different statistical measures
- To enable a student to analyze economic data using statistical concepts and tools

Pedagogy:

- 1) Lectures
- 2) Tutorials

Course Outline:

1 Frequency Distribution and Tabulation, Measures of Central Tendency: Average, Arithmetic Mean, Geometric Mean, Harmonic Mean, Quadratic Mean or the Root Mean Square, Median, Median and Quartiles, Mode 8 Hrs

2 Measures of Dispersion, Range, Quartile Deviation, Mean Deviation, Variance, Moments of Distribution

6 Hrs

3 Correlation and Regression: Concept of Correlation and Regression, Pearson's Coefficient of Correlation, Scatter Diagram, Method of Least Squares, Regression Equations, Coefficient of Determination, Multiple Correlation 8 Hrs

4 Time Series: Regularity and Order in data, Time Series and Frequency Distributions, Objectives and Uses of Time Series Analysis, Time Series Analysis, Trend Cyclical Effects, Business Effects, Seasonal Effects, Irregular Fluctuations 8 Hrs

5 Index Numbers: Concept, Price Relative, Quantity Relative, Value Relative Laspeyres' Paasche's and Fisher's Indices, Tests for Ideal Index Numbers, Wholesale Price Index Number, Cost of Living Index Numbers, Consumer Price Index Numbers

8 Hrs

6 Probability: The Concept of Probability, Definitions related to Probability and their Limitations, Different Axioms and Properties, Conditional Probability, Fundamental Laws, Bayes' Theorem, Random Experiment, and Expectations

12 Hrs

7 Probability Distributions: Mass and Density Functions, Distribution Functions, Discrete and Continuous Distribution, Uniform, Binomial, Poisson, Normal, their Relations, Expectations, Mean and Variance. Applications of Uniform, Binomial, Poisson and Normal Distributions. 10 Hrs

Books Recommended:

1. Schaum's Outline on Statistics – Murray R. Spiegel and Larry J. Stephens – McGraw Hill
2. Fundamentals of Applied Statistics – S. C. Gupta and V. K. Kapoor – Sultan Chand & Sons
3. Mathematics for Economists – B.C. Mehta and G.M.K. Madnani.
4. Mathematics for Management and Economics – G. S. Monga.
5. Basic Statistics – A. L. Nagar and R.K. Das.
6. Fundamentals of Applied Statistics – S.C. Gupta and V.K. Kapoor
7. Statistical Methods – N.G. Das
8. Statistical Methods I & II - Mrs Bhavana Deshpande and Nanda Rajput

1.11. Code of Conduct

The student code of conduct is established to foster and protect the core missions of the Symbiosis International University, Pune. The SIU Code of conduct is available on the SIU as well as the SSE websites. You are required to read through the same and comply with it in letter and spirit. (<http://www.sse.ac.in/> -- About Us – Code of Conduct)

If the code appears to have been breached, do contact the relevant authorities.

(Class teacher/Internal Complaints Committee /Deputy Director/Director/Office Superintendent/ or the Registrar of Symbiosis International University).

Points to bear in mind:

1 Dress code & ID card

As per the guidelines of SIU the students should adhere to prescribed dress code. At SSE, the uniform days are Monday, Wednesday and Friday. Wearing of uniform may also be made mandatory during events. Uniform includes black formal shoes, tie, shirt and trousers. Blazers should be worn during formal events.

The ID card is a symbol of belonging to a premiere institution and also a means of identification in the event of accidents, medical and other emergencies. Every student of the programme must have an identity card. He/She should always wear it on person while on campus and should produce it whenever called upon to do so by the concerned authorities.

Wearing the Identity card is compulsory. Any student found without Id- Card will not Be allowed in campus. Temporary ID- Cards are not allowed after receipt of permanent one. Exchange/ transfer of ID card are strictly prohibited and will call for action by authority.

A student is required to collect his/her I. Card within 15 days from the date of admission. The loss of I-card should be reported immediately to the coordinator with an application. The librarian must also be given the copy of the same. Rs. 500/- will be charged for duplicate I-card (including tag and holder).

On non- uniform days students should be decently attired and well groomed. Improper /indecent attire will call for action by authority.

Wearing of formal shoes is a must. Casual appearances in floaters and shorts in the academic block on a working day is not acceptable.

Students not adhering to dress code will not be allowed to attend classes and will forfeit the attendance for the classes missed. For repeated violation after 3 warnings students' parents will be informed.

Attendance

Every student must attend at least 75% of the total number of lectures conducted in the class by the faculty. The student will not be eligible to appear for the examination if he/she fails to put in the required attendance. **The Course Not Granted (CNG) and Term Not Granted (TNG) rules will apply as per SIU rules.**

Leave on medical grounds

1. The student should report about the sickness to the institute on telephone.
2. A leave application on medical grounds should be attested by the 'On Duty' Medical officer (MO) of Symbiosis Centre of HealthCare.
3. **For leave up to 3 days:** If the student takes treatment from a private doctor, then he/she has to submit the leave certificate to the institute on the day of rejoining the college. The office of the institute will at the discretion of the Head/ Director may accept it or require the student to have it authenticated from SCHC. *However the medical issue should be reported to the SCHC MO at the onset itself.*
4. **In case the medical leave is likely to extend for a period of more than three days:** *For local students it is mandatory for the students to be present in person or to inform on telephone to SCHC (020- 25678680/ 9552525651, email - mo@schcpune.org) as the case may be about the sickness.* Sanction of leave for more than three days will have to be obtained before the fourth day itself and not at the time when the student comes back to college. Continuation of sick leave beyond three days will have to be notified to SCHC on the number / email id provided above.
5. **For outstation students:** In case the student is admitted to a hospital or has fallen sick during his visit home or is so incapacitated, it is obligatory for him/her to send a medical certificate issued by the doctor treating him/her and giving details of his/her medical condition by fax. This should be addressed to the medical officer; SCHC (Fax 020- 25678680 Ext. 204) indicating the possibility of medical leave extending beyond three days.
6. Please note that except in the case of hospitalization authenticated by SCHC, absence on medical grounds beyond 25% shall not be condoned

i.e. the student is still required to have 75% attendance.

7. In case of hospitalization duly authenticated by SCHC, absence beyond 25% may be condoned as per the advice of the doctors at SCHC and at the discretion of the Head. However, for no reason including hospitalization will the student be permitted to appear for the semester end examinations, if his/her attendance has fallen below 50% for the semester.

8. No back dated medical leave will be granted to the students on any ground whatsoever.

9. On no account will students be allowed to remain absent for any continuous assessment conducted by the institute. The student will be entirely responsible for such absence. This may be detrimental to the overall performance and results of the student.

10. No student should leave the station without the prior permission (written) of the concerned authority. Students will also have to take prior permission to remain absent from any activity of SSE.

11. The students should be punctual in class and must be in his/her seat at the commencement of lectures.

Note: The total number of lectures missed on the grounds mentioned above should not in any case exceed 25%. Grant of permission does not mean that the absence has been condoned for the purposes of computing attendance. However, cases under point 6 may be exceptions.

Absence from the Seminars, Workshops & Presentations

Attendance for Guest lectures, workshops and Seminars is compulsory.

Students are required to strictly observe the uniform code prescribed and wearing of Identity cards are compulsory.

On no account will students be allowed to remain absent for seminars & workshops.

Students should be punctual in attendance and must be in his/her seat at the commencement of seminars and workshops.

Students are expected to maintain the decorum in the institution and interact meaningfully with the guest.

2 Leave Travel Concession

Since Railway rules prescribe that travel concession will be allowed only for designated vacations, such concession forms will not be made available for travel in between vacations whatever be the reason. You may contact Namrata / Vaishali from the front office regarding the same.

3 Discipline Rules

Any act of indiscipline/insubordination or misbehavior by any student will call for action by authority.

Use of mobile phones in the academic block of the institute is strictly prohibited. Violation of the rule will result in confiscation of SIM card.

Loud/impolite talk/use of unparliamentarily language which offends the listener would be dealt with seriously.

The behavior of the students at all times, within or outside the campus must be above board and must reflect a sense of responsibility.

Students are required to strictly observe the uniform code prescribed and wear ID cards at all time. Non-compliance will attract corrective action. Any student found in improper uniform will be sent back even during college hours and the student will himself be responsible for the loss of attendance.

Students are required to show due regard for the rights and property of the SSE. Any student found guilty of tampering/damaging the property, fixtures, equipment, furniture, books, and buildings, vehicles etc. of the institute would attract punishment and compensation for loss caused.

Instigating or abetting collective insubordination will be viewed very seriously. No society or association of the students will be started without the written permission of the concerned authority.

No person shall be invited to address or entertain the students of the college without the previous written permission of authorities

Consumption or possession of alcohol/drugs and being under influence while on campus or at functions is prohibited.

Eatables are not permitted in classrooms, computer lab, A/V studio, and library and office area.

Use of net connectivity for non-academic purpose is not permitted during the institute hours
Littering in the campus will attract action by authority.

The admission of a student who had been admitted to the programme/ institute based on any form of misinterpretation of facts, will be cancelled as soon as such misinterpretation surface no matter at what stage of the programme he/she is studying in. Further he/she will forfeit the tuition fees paid for the programme.

Any student misbehaving in class and behaving arrogantly towards the faculty and staff will be reported against to the authority. The nature of punishment will depend upon the severity of the offence and will be decided by the Director on a case to case basis.

Theft, gambling, sexual harassment, physical fights/ bouts with each other, smoking on Symbiosis Campus, indecent behavior in public places will be dealt with severely by the authority. Any other offence not included in this list will be dealt with on a case basis by the Director.

4 Hostel Rules

- Students residing in hostels - if caught with Drugs (weed, etc) will face severe disciplinary action.

They will be expelled and their parents will be contacted. They will get a TNG for the said semester

STUDENTS WILL BE ALLOWED TO CONTINUE TO STAY IN COLLEGE HOSTEL IN SY & TY SUBJECT TO HIS / HER ACADEMIC PERFORMANCE AND SUBJECT TO AVAILABILITY.

a. *Ragging*

Ragging is totally prohibited in Symbiosis International University and in its Institutes and anyone found guilty of ragging and / or abetting ragging whether actively or passively, or being a part of conspiracy to promote ragging, is liable to be punished in accordance with UGC Regulations 2009 as well as under the provisions of any penal law for the time being in force.

(<http://siu.edu.in/downloads/Anti-Ragging.php>)

Anti-Ragging Helpline of the University: 9552525725

At SSE the nodal officer for Anti Ragging Complaints is: Ms..Deepashri Bhagwat (Sr. Office Superintendent)

Email: deepashri.bhagwat@sse.ac.in ; Mobile No: +91 9767549640

Anti-Ragging Measures: (As per UGC Notification No. F.1-I6/2009(CPP-II) dated September 2009) Ragging is totally prohibited in Symbioses International University and in its Constituent Institutes and anyone found guilty of ragging and /or abetting ragging whether actively or passively, or being a part of conspiracy to promote ragging, is liable to be punished in accordance with UGC Regulations 2009 as well as under the provisions of any penal law for the time being in force.

As per UGC Regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009, Ragging constitutes one or more of any of following acts:

- I. Any conduct by any student or students whether by words spoken or written or by act which has the effect of teasing, treating or handling with rudeness a fresher or any other student.
- II. Indulging in rowdy or indiscipline activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student.
- III. Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student.
- IV. Any act by senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher.
- V. Exploiting the service of a fresher or any other student for completing the academic tasks

assigned to an individual or a group of students.

VI. Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students.

VIII. Any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd act, gestures, causing bodily harm or any other danger to health or person.

IX. Any act or abuse by spoken words, email, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from activity or passively participating in the discomfiture to fresher or any other student.

X. Any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.

Symbioses international university ensures that the congenial and welcoming environment is given to the flashers in all its constituent institutes. To achieve this objective following committees have been formed by the University as per UGC Regulation 2009:

- 1 University Anti Ragging Committee
- 2 Anti-Ragging Squad at Institute level
3. University Monitoring Cell
4. Monitoring Cell will be constituted by all the constituent Institute of the University at the beginning of each academic year.

Administrative Action in the event of Ragging:

The Anti Ragging Committee may, depending upon the nature and gravity of the guilt established by the Anti Ragging Squad, award, to those found guilty, one or more of the following punishments:

1. Suspension from attending classes and academic privileges.
2. Withholding/withdrawing scholarship/ fellowship and other benefits.
3. Debarring from appearing in any test/examination or other evaluation process.
4. Withholding results
5. Debarring from representing the institution in any regional, national or international meet, tournament, youth festival etc
6. Suspension/expulsion from the hostel
7. Cancellation of admission
8. Rustication from the institution for period ranging from one to four semesters
9. Expulsion from the institution and consequent debarring from admission to any other institution for a specified period.

Provided that where the persons committing or abetting the act of ragging are not identified, the institution shall resort to collective punishment.

Note: Due to this Covid situation rules can be different from regular situation.

As and when we receive notifications / circulars from SIU we will share the same with you.

b. *Communication to students*

Any changes affecting the students or class schedule will be communicated to the students via mails or other modes of communication. It is important that the students keep themselves abreast of any changes of time table details and other relevant announcements. Students are advised to visit the website, notice boards and also the coordinator's office on a regular basis.

At SSE we have adopted an open door policy. The students can meet the Director with prior appointment from her PA. The faculty and staff are also available for mentoring and guidance at a mutually suitable time.

c. *Examination Rules*

Students need to fill online form and confirm their candidature for fresh exams (details regarding exams will be communicated through mails).

- Students are required to strictly observe the uniform code prescribed and carrying Identity cards are compulsory. Students will be sent back if this is not adhered to.
- Students must carry Hall tickets during examination.
- Students are required to carry the required stationery for writing examination. Mobile phones are not allowed in the examination hall.
- Students should not indulge in any verbal/non-verbal conflict with the invigilator. DO NOT RESORT TO ANY UNFAIR PRACTICES.

A. Regarding Backlogs:

Students will have to fill online forms for Internal as well as Term End backlogs.

B. ATKT (Allowed to Keep Terms) rules for 3 years B.Sc.

Programme are as follows: A student will attend classes of all the years with his / her batch. However, he/she:

- Cannot appear for end Semester – 5 exams if he/she has CGPA less than 4.00 up to Semester- 2 irrespective of number of backlogs in Semester – I.***
- Cannot appear for end Semester – 6 exams if he/she has CGPA less than 4.00 up to Semester-3 irrespective of number of backlogs up to Semester-II.***

However, validity of terms will be, the students joining the Three Years Programme must complete the programme in five years from the date of

admission.

- C. As per SIU rule the students having backlogs Internal / External should procure the latest syllabus and its student's responsibility to cover the changes in syllabus if any.

Special chance:

Additional chance for one academic year may be permitted for immediate attempt after the Validity of terms is over provided the number of courses yet to be completed by a student carry credits equal to or less than 10% of the total number of credits for the programme.

d. *Library Rules*

The following persons will be eligible for making use of the institute library.

- Students of Symbiosis School of Economics.
- All members of the Teaching staff and Non-teaching staff of the Symbiosis Institutions.
- Members of Symbiosis Society.
- Others: - (Only in exceptional cases) The Director and the Librarian may in their personal discretion allow some other persons to use the Library.

Home Lending Facility

- Home Lending Facility is available to the members of the Teaching and Non-Teaching staff and students.
- The Library Book must be returned on or before the last date stamped on the Due Date slip, pasted on the first page of the book.
- Reference Books of biographical/ philosophical general nature can be issued to the student for a week on request

General Rules:

1. Members shall observe silence in the Reading Hall.
2. Maximum of 2 books will be issued for 7 days at once.
3. Renewal of the books is mandatory on or before due date. Failure to renew / return of the books will imply a fine of Rs. 2 per day
4. In case a book/magazine/Journal is lost; the borrower has to replace the same with the latest Edition/Version of the material. If the copy is out of print then the user has to pay the cost of the material along with the overdue amount of fine
5. Borrowers are advised to make use of bookmarks to mark their reading and return the book in a good condition.
6. Member shall not write upon, damage or mark any book / resources belonging to the library.
7. Library staff has the authority to deny you the usage of library premises &/or resources in case he/she finds your behavior not appropriate in the library.

8. Member shall not smoke, or spit in any part of the library.
9. In case a member wish to bring his/her personal reading resources to the library premises; he/she has to inform the library staff and seek permission for the same.
10. Member leaving the library should stop at the exit so that the material borrowed or taken out by them can be checked by the person on counter.
11. Identity Card is mandatory for getting access to the library premises even for the in-house students.
12. Books removed from the shelves by students, if not required for reference, should be kept on the book trolley or on table nearest to them. Please do not try to shelve them by yourself. Please remember that a book misplaced is a book lost.
13. The newspaper(s) are available on the newspaper stand for reading. Do not cut any news or part of the paper.
14. Readers should not deface, mark, cut, mutilate or damage library resources in any way. If anyone is found doing so, he will be charged the full replacement cost of the resource. It is responsibility of the user that the books borrowed should be protected from RAIN, DUST, INSECT, etc.
15. Students are advised to issue books on their own cards only. Disciplinary action shall be taken if the staff finds the subscription rights being misused.
16. All users are requested to keep their mobiles switched off or in silent mode when they are in the Library. The staff has the right to confiscate if the mobile rings in the library premises or found someone using the same in the library premises.
17. Beverages and Eatables are not allowed inside the Library.
18. No photography allowed inside the library premises without prior permission of the Librarian
19. Library reserves the right to call back any issued book/item at any time
20. Students are advised to come to the Library in decent dressing. In case the library staff finds the attire not appropriate he/she may be asked to leave the library premises
21. The Librarian reserves the right to suspend the membership of any member found misbehaving, abusing the library staff or behaving in an indecent manner

- Students are encouraged take active part in game, debates, dramatics and such other co- curricular activities, as they are absolutely essential for the development of the student.
- There are student clubs which are formed through nominations and elections and ratification by the Student Council and Institute authorities.
- Any student allowed to represent the institute in any activity will not do anything, which will affect the prestige and reputation of the institute. Malpractices will be dealt with strictly.
- Any advance taken by a student towards any activity co/ extra- curricular should be settled with the accounts assistant/faculty- in - charge within four days from the completion of the activities. To substantiate the expenses proper receipts must support the statement.
- Students will not be granted attendance for practice sessions.

Important:

The students are bound by all the rules and regulations made by the institute from time to time. The Head also reserves the right of modifying these rules as and when felt necessary.

Where any rule is not explicitly provided for, the rules of SIU will apply.

All disputes pertaining to sale of prospectus, conduct of examinations and admission to the center/institute shall fall within the jurisdiction of Pune, Maharashtra only and will be settled through arbitration.

Note: The administration of the institute or the campus, reserve the right to rusticate any student found drunk on the campus, irrespective of where the student may have consumed the alcohol.



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