HSEE-2016

Humanities and Social Sciences Entrance Examination - 2016

INFORMATION BROCHURE

Indian Institute of Technology Madras

Chennai 600036

With an interdisciplinary perspective at the heart of its approach, the Department of Humanities and Social Sciences at IIT Madras, which is one of the oldest departments in the Institute, provides intellectual and cultural foundations for the study of human relations in contemporary contexts. During the course of more than fifty years, it has grown into a vibrant department with teaching and research programmes run by a globally acknowledged team of faculty members.

The five-year integrated Master of Arts (M.A.) programme is designed to meet the needs of students who seek a broader learning forum and who appreciate the unique design of inter-disciplinary studies. The programme encourages students to engage in critical thinking and research on ideas, people, society and the human condition.

The total number of seats sanctioned for the programme is 46. HSEE-2016 is intended to admit students to this programme in two streams: Development Studies and English Studies. The first two years of the curriculum are common to all the students after which, they branch out into the two streams. Allocation of streams will be based on students' preferences as well as their academic performance during the first three semesters.

IMPORTANT NOTES

i.   All applications are to be made through online mode. Visit: http://hsee.iitm.ac.in

ii.   **Examination Fee:**

Category	Gender		
	Male	**Female**	**Third**
GEN / OBC(NCL)	Rs.2000/-	Rs.1000/-	Rs.2000/-
SC / ST / PwD	Rs.1000/-	Rs.1000/-	Rs.1000/-

Additionally, the service charges of the Bank will be Rs.30/-. The examination fee must be paid either through Net Banking / Credit Card / Debit Card or through the Indian Bank Challan generated during the process of application.

iii.   Candidates must fulfill the eligibility criteria given in Section 13.

iv.   Options, once selected in the application form, cannot be changed after the application is submitted.

v.   Completed application form has to be submitted online only, along with the scanned photograph, signature and copies of relevant certificates, on or before January 25, 2016.

vi.   **Candidates belonging to OBC (NCL) / SC / ST / PwD are required to submit additionally, a hard copy of the self-attested certificate of respective category/medical certificate as applicable, in the prescribed format so as to reach the address (The Chairman, HSEE-2016, JEE Office, IIT Madras, Chennai-600 036), before January 25, 2016.** Applications received after the deadline will not be accepted.

vii.   Check the Online/Offline payment details in the application form.

viii.   Obtain category certificate(s) as applicable, in the prescribed format(s) as given in Appendix-I, Appendix-II and Appendix-III. **OBC (NCL) certificate must have been obtained on or after June 01, 2015**.

ix.   No acknowledgment card will be sent. The candidates are advised to check the status of their application at the HSEE website, after February 16, 2016.

x.   The examination fee is non-refundable.

xi.   Candidates may mail any enquiry to : hsee@iitm.ac.in

xii.   See the last page of this brochure for important dates.

CHECKLIST

SUPPORTING DOCUMENTS TO BE SUBMITTED ALONG WITH THE APPLICATION FORM

i. Scanned photograph and signatures of the candidate and the Parent / Guardian.

ii. Scanned copy of 10th Class Public Examination certificate for Name and proof of date of birth.

iii. Scanned copy of 10+2 Class mark sheet (if already passed 10+2 examination).

iv. Scanned copy of category certificate [SC / ST / OBC (NCL)], if applicable. OBC (NCL) certificate must have been obtained later than June 1, 2015. See Appendix-I and Appendix-II.

v. Scanned copy of PwD certificate, if applicable. See Appendix-III.

vi. Candidates belonging to OBC (NCL) / SC / ST / PwD are required to submit additionally, a hard copy of the self-attested certificate of respective category / medical certificate as applicable, in the prescribed format by speed post, **to The Chairman, HSEE-2016, JEE Office, IIT Madras, Chennai-600 036,** so as to reach on or before January 25, 2016.

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1. ABOUT IIT MADRAS

The Indian Institute of Technology (IIT) Madras is an institute of national importance established through an Act of Parliament in 1959. It offers quality education in Humanities, Sciences, Engineering, Management and Technology at UG / PG level.

The academic environment promotes an all-round and holistic development of personality, excellence in knowledge, self-confidence, discipline, and values of responsible professionalism, and citizenship. The academic programmes of the Institute have a credit-based system, which offer flexibility to acquire knowledge and skill in a variety of disciplines.

The alumni of the Institute hold key positions in academia, industry and government in both India and abroad, and have made notable contributions in their respective fields. The Institute also has an excellent placement cell.

2. ABOUT THE DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

The Department of Humanities and Social Sciences (HSS) is one of the earliest departments at IITM. The department is essentially multi-disciplinary in nature and has faculty from diverse streams, such as Development Studies, Economics, English, Environmental Studies, Film Studies, Health Studies, History, International Relations, Philosophy, Politics, and Sociology. The department offers doctoral programmes in humanities and social sciences besides elective courses for the undergraduate and post-graduate programmes of the Institute. Since 2006-07, the department has been offering a five-year integrated Master of Arts (M.A.) programme. With the launch of this programme, the IIT Madras has crossed a milestone in fulfilling its role in higher education in liberal arts and social sciences in the country. This has opened avenues for highly motivated students in arts and humanities to enter IIT Madras. For more information, please visit: http://www.hss.iitm.ac.in

3. THE MASTER OF ARTS

Excellence in higher education in the humanities and social sciences is evidently of growing importance around the world. By imparting quality education through this programme the Institute aims at producing well-rounded individuals with sound training in the humanities and social sciences to answer the needs of universities, research institutes and commercial and public sector enterprises. The programme draws its strength from the unique mix of streams.

4. STREAMS OFFERED

Integrated M.A. in Development Studies
Integrated M.A. in English Studies

A brief description of each stream of the programme is given below.

Development Studies:

This stream addresses questions of "order and change" in a globalizing world and aims to explore available approaches to fostering development, understood broadly as the goal of providing people the freedom to make their lives better. This will entail studying the web of relationships humans have with each other and the physical world, which can serve both as a constraint and a source of enormous creativity and ingenuity for achieving sustainable development.

How to analyse and address these issues therefore requires knowledge and skills from across the social sciences, which is what the inter-disciplinary area of Development Studies seeks to do. It covers such topics as economic development, the role of the state and markets, globalization, inequality, poverty, gender relations, environment, conflict, new social movements, politics and institutions, and so on. Courses include those in economics, urbanization, gender studies and science and technology studies as well as advanced topics in political philosophy and social theory. Graduates have career opportunities in government, academia, research organisations and industry.

English Studies:

The English Studies stream has been designed for students with sensitivity for literary and linguistic analyses. It provides an understanding of literatures in English from around the world with special emphasis on current debates in literary theory, lesser-known literatures and the importance of an interdisciplinary approach. It aims to introduce students to language, literary and cultural studies, with an emphasis on critical reading skills that would stand a student in good stead whatever he/she may eventually do in life starting with introductory courses in the basics of language and literature, the stream covers the masters of English literary tradition, as well as major writers from other traditions – Asian, African, Latin American and Continental. A range of genre-based, author-based and period-based courses are offered so that students appreciate different kinds of literature in English in different periods of its history.

Courses in linguistics and the structure and function of natural languages as a system of cognition and communication are parts of this stream. Students are exposed to other streams such as Economics, Sociology, History, and Philosophy so that they can have a range of career options from academics and editing to journalism and language training.

5. DISTINCTIVE FEATURES OF THE PROGRAMME

A. The programme has been designed to expose students to many ideas and perspectives. The students choose their streams after experiencing the competing fields and subjects during the first two years. Specialization begins in the third year.

B. A very distinctive feature of the programme is the involvement of the Engineering, Sciences and Management faculties in offering innovative courses in collaboration with the Department of Humanities and Social Sciences. Such courses are offered as "minor streams" and electives. Such collaboration with other departments is also visualized through dissertation work under joint-supervision.

C. The programme imparts substantial knowledge of Indian economy, literature, philosophy, culture, society, and public policy. It provides opportunities for learning a foreign language. Currently German, French and Chinese are offered.

D. The programme requires students to complete 521 credits spread over five years to earn the degree. Discipline-related courses account for a minimum of 44% of total 521 credits. This includes core and elective courses and a dissertation (refer to the Table below).

The distribution of credits is according to the course categories given below:

S.No.	Course Category	No. of Courses	Credits	%
1	Common Courses (including mini projects)	23	208	40
2	Discipline Courses (Core and Electives)	19	186	36
3	Other Electives (including Free / Minor stream)	9	85	16
4	Dissertation / Seminar	3	42	8
	TOTAL	**54**	**521**	**100**

6. ADMISSION MODE AND INTAKE

Admission is solely through Humanities and Social Sciences Entrance Examination (HSEE). The programme has a total of 46 seats; each stream will have 23 seats. Allocations of seats to individual streams will be made based on the academic performance of students (CGPA) during the first three semesters, students' preferences, and availability of seats under each discipline.

7. FEES

Candidates admitted through HSEE-2016 will have to pay the following fees at the time of admission:

S.No	Item	Indian Nationals	Foreign Nationals
1	One Time Payment	Rs.2,550	US $ 2000 (tuition fees and other fees per annum) + US $ 261 (towards one time fee, deposits and application cost) for SAARC Countries.
2	Semester Fees*	Rs.11,549	
3	Refundable Caution Deposit	Rs.2,000	US $ 4000 (tuition fees and other fees per annum) + US $ 261 (towards one time fee, deposits and application cost) for other countries.
4	Refundable Hostel Deposit	Rs.2,000	
5	Hostel and other Fees # (Per Semester)	Rs.18,150	Rs.18,150

All fees are subject to vary time to time.

* SC/ST and PwD students are exempted from payment of tuition fees of Rs.3,000/- per semester irrespective of the parental income.

\# Includes mess advance of Rs.12,000/- for 6 months.

The fee structure for subsequent semesters will be made available at the time of admission.

8. PATTERN FOR HSEE-2016

8.1 Type of Question Paper:

HSEE-2016 examination is of three hours duration and has two parts. Part I consists of objective type multiple choice questions for 2½ hours duration (150 Minutes), administered through computer. Part II involves essay writing for 30 Minutes to be written on answer sheet distributed to the candidates at the end of Part I.

Part I covers the following topics: (i) English and Comprehension Skill; (ii) Analytical and Quantitative Ability; (iii) General Studies covering the areas of Indian Economics (since Independence), Indian Society, Contemporary World Affairs (post-World War II); and (iv) Environment and Ecology.

Part II requires the candidate to write an essay on general topic involving description, or/and reflection or/and discussion.

8.2 Language of Question Paper: English.

8.3 Items Prohibited in the Examination Hall:

Electronic devices like mobile phone, calculator, iPod, iPad and head phones etc. are NOT PERMITTED in HSEE-2016. Further, items such as log table, abacus, slide rule, book, notebook, geomentry box etc. and any other means of calculation are also strictly prohibited in the examination hall.

9. SCHEDULE OF HSEE-2016

The examination will be held on Sunday, April 17, 2016 between 10:00 and 13:00 hours in select cities throughout India.

The above date will remain unaltered even if this date is declared as a public holiday.

10. NATIONALITY

Candidates who are **NOT** citizens of India at the time of registering for HSEE-2016 (by birth or naturalized) are treated as foreign nationals.

11. RESERVATION OF SEATS

Indian nationals belonging to certain categories are admitted under the seats reserved for them in accordance with the rules of the Government of India.

The categories and the extent of reservation are as follows:

Other Backward Classes belonging to Non-Creamy Layer (OBC-NCL).
Scheduled Caste (SC)
Scheduled Tribe (ST)
Persons with Disabilities (PwD)

11.1 **Other Backward Classes belonging to the Non-Creamy Layer (OBC-NCL):** 27% of seats are reserved for OBC - NCL. The class should have been mentioned in the central list of OBCs (http://www.ncbc.nic.in/User_Panel/CentralListStateView.aspx) as of June 1, 2015 and the certificate (see APPENDIX – II for the format and details) should have been obtained from a competent authority on or after June 1, 2015.

While submitting the completed application, the candidate must submit a scanned copy of the OBC (NCL) certificate and a hard copy of the same must reach the Chairman, HSEE-2016 before January 25, 2016 failing which, the candidate will be considered as a general category candidate. If selected, the candidate must produce the original certificate at the time of admission failing which, the offer of admission will be cancelled.

Candidates belonging to the creamy layer of OBC are **NOT** entitled for reservation. Such candidates are treated as belonging to the general (GE, *i.e.*, unreserved) category.

11.2 Scheduled Caste (SC) / Scheduled Tribe (ST): 15% seats are reserved for SC and 7.5% seats for are reserved for ST. The benefit of reservation will be given only to those castes and tribes that are mentioned in the respective lists of corresponding states published by the Government of India   (http://socialjustice.nic.in/sclist.php   and http://tribal.nic.in/Content/list of Scheduled Tribes in India.aspx).

While submitting the completed application, the candidate must submit a scanned copy of the certificate (see APPENDIX – I for the format and details) and a hard copy of the same must reach the Chairman, HSEE-2016 before January 25, 2016 failing which, the candidate will be considered as a general category candidate. If selected, the candidate must produce the original certificate at the time of admission failing which, the offer of admission will be cancelled.

11.3 Persons with Disabilities (PwD): 3% of seats are reserved in every category, *i.e.*, GE, OBC-NCL, SC and ST. Benefit would be given to those who have at least 40% impairment irrespective of the type of disability i.e., locomotor, visual or dyslexic. Leprosy- cured candidates who are otherwise fit to pursue the course are also included in this sub- category. Candidates are advised to ensure that the certificate is in accordance with the latest guidelines of the Government of India (visit the web site of the Ministry of Social Justice and Empowerment, Department of Disability Affairs for latest information).

While submitting the completed application, the candidate must submit a scanned copy of the certificate issued by a district medical board/competent authority in the prescribed format (see suitable form under APPENDIX – III for details) and a hard copy of the same must reach the Chairman, HSEE- 2016 before January 25, 2016. If selected, the candidate must produce the original certificate at the time of admission failing which, the offer of admission will be cancelled.

Candidates belonging to the OBC-NCL, SC, ST and PwD categories will be declared as qualified on the basis of a relaxed criterion.

Unfilled seats in the OBC-NCL category can be allotted to GE category candidates, whereas seats remaining vacant under the SC and ST categories shall **NOT** be allotted to candidates belonging to other categories. The reservation for PwD candidates is horizontal and hence, unfilled seats will be allotted to candidates belonging to the respective categories i.e., unfilled SC (PwD) seats will be allotted to candidates belonging to the SC category and so on.

The category chosen by a candidate at the time of registration for HSEE-2016 will be final and requests for change of category will **NOT** be entertained.

11.4 Foreign Nationals:

Admission to the M.A. program for all foreign nationals will be made through HSEE-2016 only. Foreign nationals are outside the ambit of reservation of seats under the OBC-NCL, SC, ST and PwD categories as specified herein. Seats allotted to foreign nationals are supernumerary. The number of such seats will be made known at the time of admission.

12. SCRIBE:

Candidate requiring the services of scribe will be permitted to take the examination at a Centre in Chennai only.

The services of a scribe (amanuensis) are available to candidates who are visually impaired, dyslexic, have disability in the upper limbs or have lost fingers / hands. To avail the services of scribe, the candidate must write a letter to the Chairman, HSEE-2016 alongwith a copy of the PwD certificate (before the deadline for the online registration). Candidates are not allowed to bring scribes of their choice. Candidate will have to use the scribe provided by the HSEE Office. The candidate will be able to meet the scribe one hour before the start of the examination. Candidates using the services of a scribe will get one hour compensatory time. In other words, the closing time of examination for such candidates will be 14.00 IST.

If it is found that a candidate has used the services of a scribe, and consequently one extra hour, but does not possess the extent of disability that warrants the use of a scribe, he/she will be excluded from the process of evaluation, ranking and admission. If the candidate has already been admitted, his/her admission will be cancelled.

13. ELIGIBILITY

13.1 Qualifying Examination (QE):

Candidates applying for HSEE-2016 must have passed for the first time in 2015 or should be appearing in 2016 in any one of the following qualifying examinations (QE):

• The final examination of the 10+2 system, conducted by a Central or State Board recognized by the Association of Indian Universities (www.aiuweb.org).

• Intermediate or two-year Pre-University examination conducted by a Board or University recognized by the Association of Indian Universities.

• Final examination of the two-year course of the Joint Services Wing of the National Defence Academy.

• Senior Secondary School Examination conducted by the National Institute of Open Schooling with a minimum of five subjects.

• Any Public School, Board or University examination in India or in a foreign country recognized as equivalent to the 10+2 system by the Association of Indian Universities (AIU).

• H.S.C. vocational examination.

• General Certificate Education (GCE) examination (London, Cambridge or Sri Lanka) at the Advanced (A) level.

• High School Certificate Examination of the Cambridge University or International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.

Candidates who have completed Class XII (or equivalent) examination outside India or from a Board not specified above should produce a certificate from the Association of Indian

Universities to the effect that the examination they have passed is equivalent to the Class XII examination.

In case the Class XII examination is not a public examination, the candidate must have passed at least one public (Board or Pre-University) examination earlier.

13.2 Percentage of Marks in QE:

The candidates belonging to the general category and OBC category must secure a minimum of 60% marks in aggregate in the QE. Candidates belonging to SC, ST and PwD categories must secure a minimum of 55% in aggregate in the QE. In case where only letter grades are mentioned in the grade sheet, the candidate should obtain a certificate from the Board specifying equivalent marks, and submit it at the time of joining. In case such a certificate is not provided by the candidate, the decision of the HSEE admission committee regarding his/her eligibility shall be final.

13.3 Date of Birth:

Candidate, whose date of birth falls on or after October 01, 1991, is eligible for HSEE-2016. However, in the case of SC, ST and PwD candidates, upper age limit is relaxed by 5 years, i.e., candidates belonging to these categories / sub-categories born on or after October 01, 1986 are eligible. The date of birth as recorded in the High School (10th std. / 12th Std.) first Board / Pre-University Certificate will be taken as authentic. Candidates must produce a scanned copy of this certificate along with the completed Application Form as a proof of their age and at the time of admission original certificate has to be produced failing which they will be disqualified.

13.4 Physical Fitness:

Every qualified candidate will have to submit a Physical Fitness certificate from a registered medical practitioner in the prescribed format that will be made available along with the letter of offer of admission. Candidates will be admitted only if they are physically fit for pursuing a course of study at the Institute.

13.5 Important Notes:

i. Admission to a candidate will stand cancelled, if the proof of having passed the QE, as per the eligibility criteria specified in Section 13.2, is not submitted to the Institute latest by September 30, 2016.
ii. Admissions are subject to verification of facts from the original certificates / documents of the candidates. If an applicant is found ineligible at a later date even after admission, his/her admission will be cancelled. The decision of the HSEE admission committee regarding the eligibility of any applicant shall be final.
iii. A candidate must satisfy all the aforesaid eligibility criteria in order to be eligible for appearing in HSEE-2016 / admission.

14. Cities for HSEE-2016:

The entrance examination will be conducted in the following 10 cities:

Bangalore, Bhopal, Chennai, Coimbatore, Hyderabad, Kochi, Kolkata, Mumbai, New Delhi, and Thiruvananthapuram.

A candidate has to give 2 choices for exam centre. Every attempt will be made to allot the centre of your first choice. In extreme cases, you may be allotted the centre / city of your second choice.

If sufficient number of candidates are not available at any of the above listed cities, the same may be dropped, and the candidates will be allocated to a centre of second choice in the other city. The address of an Examination Centre for a candidate will be mentioned in the Admit Card, which can be generated online. **Request from a candidate for change of city/town allotted to him/her will NOT be entertained under any circumstances.**

15. ADMIT CARD

After successful registration and payment of required fee either through the bank challan or through net banking / credit card / debit card, the candidates can download their admit card for HSEE-2016 from March 14, 2016 (10 AM) onwards till April 16, 2016 (5 PM) from the HSEE-2016 website. The Admit Card will bear the name, photograph, date of birth, address and category of the candidate along with name and the address of the HSEE-2016 Centre allotted. The candidate should carefully examine the Admit Card for all the entries made therein. In case of any discrepancy, the candidate should inform the Chairman HSEE-2016 immediately by phone / email / fax.

The Admit Card can be downloaded from the HSEE website between March 14, 2016 and April 16, 2016. Take a laser jet / ink jet printout of the Admit card. The Admit Card must be brought to the Examination Centre for your identity verification. If the Admit Card cannot be downloaded online the candidates are required to contact the Chairman, HSEE-2016 at once.

Impersonation is a legally punishable offence. No applicant will normally be permitted to write the examination without a valid Admit Card. The Admit Card should be presented to the invigilators for verification. The candidate's identity will be verified in respect of his/her details on the Admit Card and centre verification record. If the identity is in doubt, the candidate may not be allowed to appear in the examination. The authorities may at their discretion permit the candidate to appear for the examination after completing formalities including taking of thumb impression. No extra time will be allowed for these formalities to be completed. In all such cases, the candidature will be provisional. Decision regarding the provisionality of such candidates will be taken later by the HSEE committee, and it will be binding on the candidates.

Candidates have to carefully preserve their Admit Cards till the entire admission procedure through HSEE-2016 is completed.

16. MERIT LIST / RANKING

Rank list will be prepared based on the aggregate marks obtained in HSEE-2016.

- A common rank list made up of candidates who score at least 50% in HSEE-2016 will be prepared. Separate rank lists will be prepared corresponding to OBC (NCL), SC, ST and PwD categories.
- Candidates of OBC (NCL) category must score at least 45% in HSEE-2016 examination in order to be in the OBC rank list. Candidates of SC and ST categories must score at least 25% in the HSEE-2016, in order to be in their respective rank lists.
- A common rank list will be prepared for PwD candidates. To be in the PwD rank list, candidates must score at least 25% in the HSEE-2016 exam in aggregate. Separate PwD rank lists will be prepared corresponding to the OBC (NCL), SC and ST categories. Seats will be allotted using the rank lists and the number of seats available in each category. If a candidate (who has been allotted a seat) declines to take admission due to some reason or does not respond to the allotment, a seat becomes vacant. Such vacant seats will be allotted to the next candidate in the respective rank lists. While allotting a seat, if a candidate belongs to more than one category of relaxed norms, he/she shall be considered only in the category in which he / she gets the maximum benefit. If sufficient OBC (NCL) candidates are not available, then the seats will be dereserved and will be open for allotment to general candidates.

A candidate scoring higher aggregate marks, will receive a better rank. If ties occur in the aggregate marks, then the candidate who scores more in Part II (Essay writing) will be given a higher rank. If ties occur in both Part II and the aggregate, then one who scores more in the 'General studies' section of Part I will be given a higher rank. If ties occur in all of aggregate, Essay writing, and General studies, then one who scores more in the 'Analytical Abilities' section of Part I will receive a higher rank. If ties occur after all these tie-break criteria, then those candidate will be given the same rank.

17. RE-GRADING AND RE-TOTALLING

Since the examination is administered through computers, there is no scope for re-grading and re-totaling. Grading of `Essay Writing' is done in a highly confidential and impersonal manner with many checks. Hence, there will be NO re-grading and re-totalling. The answer scripts cannot be shown to anyone except the evaluators.

18. PERFORMANCE OF THE CANDIDATES

The ranks / scores of the candidates will be available for viewing in the HSEE website on May 11, 2016. The scores/ranks cannot be used by any person / institution without prior permission of Chairman HSEE-2016. Separate performance cards will NOT be sent individually to the candidates.

19. SYLLABUS FOR HSEE-2016

I. English (25% marks)

This section tests the candidate's ability to understand and use standard English, and to appreciate literary language. Questions are related to the following areas:

Reading skills: Candidates will be required to read the given passage/s that aim to test their comprehension skills.

Grammar: This section tests the candidate's knowledge of English grammar such as sentence structure and usage, the use of tenses, verb patterns, articles, and active and passive constructions etc.

Vocabulary: This section examines the candidate's vocabulary skills. Candidate's ability to understand meaning, structure and colocation of words is tested here.

II. Analytical and Quantitative Ability (25% marks)

This section tests the candidate's analytical skills and quantitative abilities. Questions are related to the following areas:

Numbers, Algebra, Highest Common Factor (HCF) and Lowest Common Multiple (LCM), Calendar, Basic Statistics – Average, Ratio and proportion, Profit and Loss, Percentages, Simple and Compound Interest, Work and time, Discount, Age sums, linear equations, elementary trigonometry.

Data Interpretation, Analytical Reasoning, Logical Reasoning, brainteasers, and patterns.

III. General Studies (in four parts - 50% marks)

(1) Indian Economy:

This section is intended to test the understanding of some basic economic concepts and awareness of key issues pertaining to the Indian economy with a focus on the developments after independence. The concepts and issues covered are:

Understanding the Economy: Scarcity, opportunity cost, resource allocation, economic systems and their characteristics, features of market economies, forces of demand and supply, elasticity of demand and supply.

Main Features of Indian Economy: Natural resources; human resources -population size and composition, literacy and education, occupational distribution.

Major Economic problems: Poverty, Unemployment and Inequality -concepts, measurement, trends, sectoral distribution and policies, inflation – trends, causes and remedies.

Economic Growth and Development: Meaning and measurement of economic growth, stages of development, national income concepts and trends, trends in savings and investment; human development index, national policy on education, health and health care policies. Planning in India: Five-Year Plans – objectives, priorities and problems.

Sectoral Development: agriculture – Green Revolution and technological changes, current issues and policies; industry-evolution of industrial policies in India (from 1948), strategies for industrial development, public and private sectors, small and medium industries, infrastructure, transport and communication, service sector etc.

Foreign Trade and International Economy: balance of payments, foreign exchange reserves and trade policy, I.M.F., W.T.O., international aid.

Money, Banking and Public Finance: Concepts of money and measures of money supply.

(2) Indian Society and Culture:

Structure of Indian Society: Caste, Class and Tribe, Institutions of Marriage, Family and Kinship, Political institutions, Demographic Indicators and Trends.

Social Change in India: Sanskritization, Modernisation, Westernization and Secularization, Social Movements and Regionalism, Panchayati Raj Institutions & Governance, Affirmative Action Programme of the Government, Commissions and Policy Interventions.

History and the Making of Indian Society: Mughal eEa and Islamisation, British Raj, Sepoy Mutiny, Reform Movements in the 19th Century and the Emergence of India.

Indian Philosophy and Thinkers: Jainism and Mahavira, Budhha and his Teachings, the Charvakins, Orthodox Systems, Sikhism, Sufism, Gandhi and Non-violence.

(3) World Affairs:

Emergence of the US and USSR; emergence of UN system; the Cold War and nuclear race; disintegration of Soviet Union, decline of Communism and rise of nationalism; Arab-Israel conflict; India and the World; NAM and role of India; India-China and India-Pakistan relations, China and the World, conflict and wars.

Democracy and Development; Challenges to democracy; North-South divide on issues of development; UN and its various developmental and peacekeeping operations; Nuclearisation and non-Proliferation; India in SAARC and ASEAN; International terrorism, fundamentalism and the War on Terror; Indo-US relations; New centres of power in Asia, Latin America and Africa.

Hunger and Poverty; Human Rights, Democracy and Development; Environmental degradation and green politics; Issues of Race, Ethnicity and Gender; Deprived Classes and minority politics; Religion in the contemporary world; Culture and Civilization; Globalization and changing economic, cultural and political landscape; Mass media and cultural change; Emergence of various popular mass movements.

(4) Environment and Ecology:

Global Environmental Picture: Population Growth, Degradation of Soils, Global Atmospheric Changes, Loss of Biodiversity.

What are Ecosystems? Structure of Ecosystems – Biotic Structure, Categories of Organisms, Feeding and Non-feeding Relationships. Ecosystems and How they Work, Elements in Living and Non-living Systems, Energy Laws, Nutrient Cycling.

Pollution – Major forms of Pollution and their Impact, Primary and Secondary Pollutants, Control Strategies, Indoor Pollutants, Global Warming, International Treaties.

Principles of Solar Energy, Hydropower, Wind Power, Biomass Energy, Ocean Thermal Energy, Geothermal Energy, and Tidal power.

Note: The topics for the essay writing in Part-2 will be based on current affairs and general knowledge.

20. APPLICATION PROCEDURE

Application for the HSEE-2016 is only through online mode.The procedure is given below:

Candidate needs access to a computer with internet connection and a printer.

20.1 Registration: Logon to the site http://hsee.iitm.ac.in and select from the menu 'Apply Online' and follow the instructions on the site. Enter all the data as per the instructions. The site will prompt to save the data on the system when necessary.

20.2 Upload scanned (i) Photograph, (ii) Signatures and (iii) Supporting Documents:

Photograph: The scanned image of photograph should be in jpg/jpeg format only. The size of the photo image must be greater than 15 kb and less than 40 kb and the dimension of the photo image should be 3.5 cm (width) x 4.5cm (height) only.

Signatures: The scanned images of signature should be in jpg/jpeg format only. The size of the signature image must be greater than 10 kb and less than 30 kb and the dimension of signature image should be 3.5 cm(length) x 1.5(height) only.

Supporting Documents: Scanned images of 10th Certificate / 10+2 certificate (if available) / Date of Birth Certificate / OBC (NCL) / SC / ST / PwD category certificate (if applicable) should be in jpg/jpeg format only.

After successfully entering the data, click the 'finalize' button. After this, the details cannot be edited.

20.3 Examination Fee: Candidates must pay the examination fee as applicable is through Net Banking / Credit Card / Debit Card / Indian Bank Challan that will be generated during the process of application. The examination fee for GE and OBC (NCL) male / Third Gender candidates is Rs.2000/-. The examination fee for all categories of female candidates and SC, ST, PwD male / Third Gender candidates is Rs. 1000/-. Additionally, the service charges of the Bank will be Rs.30/-.

20.4 Payment by Indian Bank e-challan: A bank challan of Indian bank will be generated during the online process of application. The candidate has go to any branch of the Indian Bank along with a printed challan and pay the fee. The candidate must verify that the application numbers on both the copies of the challans are the same as that in the application.

Check the challan details at the specified places in the application: Challan No.; Branch Code; Transaction No./Journal No.; Date of Payment. Ensure that the seal of the bank branch and the signature of the banker are affixed on the challan at the space provided.

20.5 Payment by Net Banking / Credit Card / Debit Card: The candidate has to select the option to pay the application fee and follow the online instructions to complete the payment of fee. After successful payment, candidate will be able to print the acknowledgement page.

20.6 Last Date: Completed application form has to be submitted online only, along with the scanned photograph, signature, copies of relevant certificates and payment details of examination fee either through offline mode (system generated Indian Bank challan) or through online modes (net banking / credit cards / debit cards), **on or before January 25, 2016.**

Candidates belonging to OBC (NCL) / SC / ST / PwD are required to submit additionally, a hard copy of the self-attested certificate of respective category / medical certificate as applicable, in the prescribed format so as to reach the address given below, before January 25, 2016.

20.7 Postal Address:

> **The Chairman, HSEE-2016,**
> **JEE Office, I.I.T. Madras,**
> **Chennai – 600036**

For all completely submitted application including fee, the receipt of application online will be reflected on the HSEE website. Candidates should check the HSEE website for the status of their applications after February 16, 2016.

21. INSTRUCTIONS FOR FILLING UP THE HSEE-2016 APPLICATION FORM

- Read the instructions carefully before filling the application form.

- Your application must be complete in all respects. Incomplete application or application with incorrect information is liable for rejection.

- **Name of the Candidate:** Enter your name in capital letters as given in your High School (10th standard) certificate. Leave one and only one blank box between consecutive words of your name. If your name has several initials, leave one blank after each of them. Do not put a `dot' after the initials.

- **Category:** Choose your category GE, SC, ST or OBC (NCL) from the drop down menu. Category once declared cannot be changed at a later date. If a candidate fails to produce the necessary certificate, he/she will be considered as a general category (GE) candidate.

- **Persons with Disabilities (PwD):** If you are a person with disabilities (has at least 40% impairment irrespective of the type of disability i.e., locomotor, visual or dyslexic. Leprosy-cured candidates who are otherwise fit to pursue the course are also included in this sub-category) then choose YES from the drop down menu. Otherwise choose NO.

- **Gender:** Choose from the drop down menu as appropriate.

- **Nationality:** Choose from the drop down menu as appropriate.

- **Date of Birth:** Select the date, month and year of your birth as per the English Calendar and as recorded in your High School (10th standard) certificate.

- **Complete Postal Address:** Enter the complete postal address to which any communication is to be sent up to July 29, 2016. The address must include C/O name, if required, and other details including the PIN CODE.

- **E-mail address:** Indicate your e-mail address.

- **Mobile / Phone Number:** Enter your 10 digit mobile phone number and the landline with STD code, by which you can be contacted or a message can be left for you. If you give your mobile number for contact, it will help us to "SMS" important messages or help you know the status of your application, etc.

- **Choice of City of Examination:** Select the name of the city from the following: Bangalore, Bhopal, Chennai, Coimbatore, Hyderabad, Kochi, Kolkata, Mumbai, New Delhi and Thiruvananthapuram.

  Though you enter names of two different cities, every attempt will be made to allot the centre of your first choice. In extreme cases, you may be allotted the centre / city of your second choice.

- **Photograph:** A recent good quality color photograph (taken not more than two months earlier) with light or white background must be uploaded. It is expected that the candidate will have the same appearance at the time of examination as in the photograph. In case your appearance has changed at the time of examination, you must submit two new photographs at the time of examination.

- **Signature:** The good quality image of your signature must be uploaded.

- **Name of Parent/Guardian:** Enter the name of your father/mother or guardian exactly as in your 10th class or equivalent certificate. Write the name of your parent if no name is given in the 10th class certificate.

FORM OF CERTIFICATE TO BE PRODUCED BY SCHEDULED CASTES AND SCHEDULED TRIBES CANDIDATES

1.   This is to certify that Shri/ Shrimati/ Kumari* _____ son/daughter* of _____ of Village/Town* _____ District/Division* _____ of State/Union Territory*_____belongs to the _____ Scheduled Caste / Scheduled Tribe* under :-

* The Constitution (Scheduled Castes) Order, 1950
* The Constitution (Scheduled Tribes) Order, 1950
* **The Constitution (Scheduled Castes) (Union Territories) Order, 1951**
* The Constitution (Scheduled Tribes) (Union Territories) Order, 1951

[As amended by the Scheduled Castes and Scheduled Tribes Lists (Modification Order) 1956, the Bombay Reorganisation Act, 1960, the Punjab Reorganisation Act, 1966, the State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganisation) Act, 1971, the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976 and the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002]

* The Constitution (Jammu and Kashmir) Scheduled Castes Order, 1956;
* The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959, as amended by the Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 1976;
* **The Constitution (Dadara and Nagar Haveli) Scheduled Castes Order, 1962;**
* The Constitution (Dadara and Nagar Haveli) Scheduled Tribes Order, 1962;
* The Constitution (Pondicherry) Scheduled Castes Order, 1964;
* The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;
* The Constitution (Goa, Daman and Diu) Scheduled Castes Order, 1968;
* The Constitution (Goa, Daman and Diu) Scheduled Tribes Order, 1968;
* The Constitution (Nagaland) Scheduled Tribes Order, 1970;
* The Constitution (Sikkim) Scheduled Castes Order, 1978;
* The Constitution (Sikkim) Scheduled Tribes Order, 1978;
* The Constitution (Jammu and Kashmir) Scheduled Tribes Order, 1989;
* The Constitution (Scheduled Castes) Order (Amendment) Act, 1990;
* The Constitution (Scheduled Tribes) Order (Amendment) Act, 1991;
* The Constitution (Scheduled Tribes) Order (Second Amendment) Act, 1991;

2.   # This certificate is issued on the basis of the Scheduled Castes / Scheduled Tribes* Certificate issued to Shri /Shrimati* _____ father/mother* of Shri /Shrimati /Kumari* _____ of Village/Town* _____ in District/Division* _____ of the State State/Union Territory* _____ who belong to the Caste / Tribe* which is recognised as a Scheduled Caste / Scheduled Tribe* in the State / Union Territory* _____ issued by the _____ dated_____.

3.   Shri/ Shrimati/ Kumari * _____ and / or* his / her* family ordinarily reside(s)** in Village/Town* _____ of _____District/Division* of the State Union Territory* of _____.

Signature: _____

Designation _____

(with seal of the Office)

Place: _____   State/Union Territory* _____

Date: _____

* Please delete the word(s) which are not applicable.

Applicable in the case of SC/ST Persons who have migrated from another State/UT.
IMPORTANT NOTES

The term "ordinarily reside(s)**" used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
Officers competent to issue Caste/Tribe certificates:
1. District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / City Magistrate / Sub-Divisional Magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
2. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
3. Revenue Officers not below the rank of Tehsildar.
4. Sub-divisional Officer of the area where the candidate and/ or his family normally reside(s).
5. Administrator / Secretary to Administrator / Development Officer (Lakshdweep Island).
6. Certificate issued by any other authority will be rejected.

OBC-NCL Certificate Format

**FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES (NCL)
APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs),
UNDER THE GOVERNMENT OF INDIA**

This is to certify that Shri/Smt./ Kum*_____

Son/Daughter* of Shri/Smt.* _____ of Village/Town*

_____District/Division* _____ in

the State/Union Territory _____ belongs to the

_____ community which is recognized as a backward

class under Government of India**, Ministry of Social Justice and Empowerment's Resolution

No._____ dtd. _____***.

Shri/Smt./Kum. _____ and / or

his/her family ordinarily reside(s) in the _____ District/Division of the

_____ State/Union Territory. This is also to certify that **he/she
does NOT belong to the persons/sections (Creamy Layer)** [based on the parental income in the
financial year 2013-14 viz. 1st April 2013 to 31st March 2014] mentioned in Column 3 of the Schedule
to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt.(SCT)
dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004, further
modified vide OM No. 36033/3/2004-Estt. (Res.) dated 14/10/2008, again further modified vide OM
No.36036/2/2013-Estt(Res) dtd. 30/05/2014.

District Magistrate /
Deputy Commissioner /
Dated: Competent Authority

Seal

---

*   **Please delete the work(s) which are not applicable.**
**   **As listed in Annexure – A**
*** **The authority issuing the certificate needs to mention the details of Resolution of
      Government of India, in which the caste of the candidate is mentioned as OBC.**

NOTE:

(a)   The term 'Ordinarily resides' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
(b)   The authorities competent to issue Caste Certificates are indicated below:
(i)   District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner /
         Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive
         Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
(ii)   Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
(iii)   Revenue Officer not below the rank of Tehsildar' and
(iv)   Sub-Divisional Officer of the area where the candidate and/or his family resides.

ANNEXURE – A

Sl. No.	Resolution No.	Date of Notification
1	No.12011/68/93-BCC(C)	13.09.1993
2	No.12011/9/94-BCC	19.10.1994
3	No.12011/7/95-BCC	24.05.1995
4	No.12011/96/94-BCC	09.03.1996
5	No.12011/44/96-BCC	11.12.1996
6	No.12011/13/97-BCC	03.12.1997
7	No.12011/99/94-BCC	11.12.1997
8	No.12011/68/98-BCC	27.10.1999
9	No.12011/88/98-BCC	06.12.1999
10	No.12011/36/99-BCC	04.04.2000
11	No.12011/44/99-BCC	21.09.2000
12	No.12015/9/2000-BCC	06.09.2001
13	No.12011/1/2001-BCC	19.06.2003
14	No.12011/4/2002-BCC	13.01.2004
15	No.12011/9/2004-BCC	16.01.2006
16	No.12011/14/2004-BCC	12.03.2007
17	No.12011/16/2007-BCC	12.10.2007
18	No.12018/6/2005-BCC	30.07.2010
19	No. 12015/2/2007-BCC	18.08.2010
20	No.12015/15/2008-BCC	16.06.2011
21	No.12015/13/2010-BC-II	08.12.2011
22	No.12015/5/2011-BC-II	17.02.2014

Form-II
Disability Certificate
(In cases of amputation or complete permanent paralysis of limbs and in cases of blindness)
(See rule 4)

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

Recent PP size Attested Photograph (Showing face only) of the person with disability

Certificate No.   Date:

This is to certify that I have carefully examined

Shri/Smt./Kum._____

son/wife/daughter of Shri_____ Date

of Birth (DD / MM / YY) ___ ____ ____ Age_____years, male/female

Registration No._____ permanent resident of House No._____

Ward/Village/ Street_____ Post Office_____

District_____State_____,

whose photograph is affixed above, and am satisfied that :

(A) he/she is a case of:

- locomotor disability
- blindness

(Please tick as applicable)

(B) the diagnosis in his/her case is _____

(A) He/ She has _____%(in figure)_____ percent (in

words) permanent physical impairment/blindness in relation to his/her_____(part of

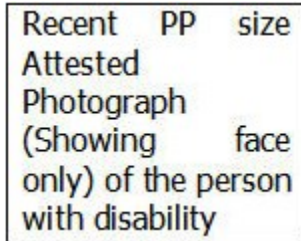body) as per guidelines (to be specified).

2. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

(Signature and Seal of Authorised Signatory of
notified Medical Authority)

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Form-III
Disability Certificate
(In case of multiple disabilities)
(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)
(See rule 4)

Recent PP size Attested Photograph (Showing face only) of the person with disability

Certificate No.   Date:

This is to certify that we have carefully examined

Shri/Smt./Kum._____

/son/wife/ daughter of Shri_____

Date of Birth (DD / MM / YY) ___ ____ ____ Age_____years, male/female_____

Registration No._____permanent resident of House No._____

Ward/Village/Street_____

Post Office_____District_____State_____,

whose photograph is affixed above, and are satisfied that:

(A) He/she is a Case of **Multiple Disability**. His/her extent of permanent physical impairment/disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	**@**		
2	Low vision	**#**		
3	Blindness	**Both Eyes**		
4	Hearing impairment	**£**		
5	Mental retardation	**X**		
6	Mental-illness	**X**		

(B) In the light of the above, his /her over all permanent physical impairment as per guidelines(to be specified), is as follows:-

In figures:- _____percent

In words:-_____percent

2. This condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

3. Reassessment of disability is:

(i) not necessary,

Or

(ii) is recommended/ after _____years_____months, and therefore this certificate shall be valid till (DD / MM / YY) _____ _____ _____

@ - e.g. Left/Right/both arms/legs

 # - e.g. Single eye/both eyes

£ - e.g. Left/Right/both ears

4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

5. Signature and seal of the Medical Authority.

Name and seal of Member	Name and seal of Member	Name and seal of the Chairperson

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Form-IV
Disability Certificate
(In cases other than those mentioned in Forms II and III)
(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)
(See rule 4)

Recent PP size Attested Photograph (Showing face only) of the person with disability

Certificate No.   Date:

This is to certify that I have carefully examined

Shri/Smt./Kum._____

son/ wife/daughter of Shri_____

Date of Birth (DD / MM / YY) ___ ____ ____ Age_____years, male/female_____

Registration No._____ permanent resident of House No._____

Ward/Village/ Street_____Post Office_____

District_____State_____, whose photograph is affixed above,

and am satisfied that he/she is a case of_____ disability.

His/her extent of percentage physical impairment/disability has been evaluated as per guidelines (to be specified) and is shown against the relevant disability in the table below:-

S. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1	Locomotor disability	@		
2	Low vision	#		
3	Blindness	Both Eyes		
4	Hearing impairment	£		
5	Mental retardation	X		
6	Mental-illness	X		

(Please strike out the disabilities which are not applicable.)

2. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

3. Reassessment of disability is :

(i) not necessary,

Or

25

(ii) is recommended/ after _____years_____months, and therefore this certificate shall be valid till (DD / MM / YY) _____ _____ _____

@ - e.g. Left/Right/both arms/legs

 # - e.g. Single eye/both eyes

£ - e.g. Left/Right/both ears

4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

(Authorised Signatory of notified Medical Authority)

(Name and Seal)

Countersigned

{Countersignature and seal of the
CMO/Medical Superintendent/Head of
Government Hospital, in case the
certificate is issued by a medical
authority who is not a government
servant (with seal)}

Signature/Thumb impression of the person in whose favour disability certificate is issued.

Note: In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District.

Note: The principal rules were published in the Gazette of India vide notification number S.O. 908(E), dated the 31st December, 1996.

FORM-DYSLEXIC

FORMAT OF MEDICAL CERTIFICATE TO BE PRODUCED BY DYSLEXIC CANDIDATE

{Name and address of the Government Hospital / Government-recognized NGO issuing the certificate}

Date:

PSYCHO-EDUCATIONAL EVALUATION REPORT

Photograph
of the Candidate

Name of the candidate:

Date of Birth:

Registration in the hospital / NGO {date / number}:

Name of the Father/Mother/Guardian:

Standard and Name of the School / College:

Physical & Neurologic Assessment: [   ]

Psychological Assessment: [   ]
WISC   **Verbal IQ:**
                 Performance IQ:
                 Full Scale IQ:

Interpretation:

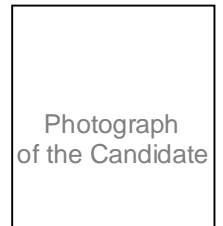**Educational Assessment**:   [   ]

Certified that:
   1. The percentage of handicap is **NOT LESS** than 40%.
   2. The disability is **PERMANENT** in nature.

Learning Disability is a permanent developmental disorder. Currently there are no standard approved methods to quantify the disorder. However the method of diagnosis is based on significant impairment in academic achievement. Thus a disorder that is diagnosed implies a disability amounting to not less than 40%.

Recommendations:

{Name, Signature, Seal and Registration number of Clinical Psychologist qualified to issue this certificate recognized by the Central or a State {including Union Territories} Government}

IMPORTANT DATES OF HSEE-2016

Activity	Date
Online Application process (HSEE website) - Starts	**December 16, 2015**
Payment of examination fee through **Indian Bank challan** / Net Banking / Credit Card / Debit Card - Starts	**December 16, 2015**
Payment of examination fee through **Indian Bank challan** / Net Banking / Credit Card / Debit Card - Ends	**January 25, 2016**
Last date for submission of online application	**January 25, 2016**
Last date for submission of hard copy of the self-attested certificate of respective category [OBC (NCL) / SC / ST] / Medical Certificate (PwD) as applicable from the candidate by registered or speed post	**January 25, 2016**
Application status check on the website	**February 16, 2016**
Admit Card can be downloaded from the HSEE website by candidates – Starts	**March 14, 2016**
Admit Card can be downloaded from the HSEE website by candidates - Ends	**April 16, 2016**
HSEE-2016 Examination	**April 17, 2016**
Declaration of result on HSEE website	**May 11, 2016**
Offer Letters to Candidates - Starts	**May 12, 2016**

CONTACT DETAILS:

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Chennai–600036

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