



Annai Hajira Women's College

Melapalayam, Tirunelveli – 05

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

CROSS - CUTTING ISSUES (CCI)

CURRICULAR PROGRAMMES						
Sl. No.	Type of Cross-Cutting Issue	Course Name	Course Code	Program	Brief Description of CCI	No. of Students Benefitted
Part of curriculum deals with						
1.	Environment	Chemistry in Medicine	SSCH4A ASCH41	Skill Based Core - B.Sc. Chemistry	<ul style="list-style-type: none"> ➤ Pollution related diseases, their prevention and treatment. ➤ Bites of species of venom and First Aid. ➤ Vitamins - Sources, Deficiency and Treatment. 	33
2.	Environment	Water Management	SNCH3B	Non - Major Elective - B.Sc. Chemistry	<ul style="list-style-type: none"> ➤ Importance of water quality for day to day use. ➤ Types of water pollutants. ➤ Purification of water for drinking purposes. ➤ Various types of waste water treatment. ➤ Maintenance of lakes and rivers. ➤ Importance and adaptation of rain water harvesting. 	24
3.	Environment	Agro Chemistry	SSCH3A ASCH31	Skill Based Core - B.Sc. Chemistry	<ul style="list-style-type: none"> ➤ The role of fertilizers, pesticides in agriculture. ➤ Soil testing methods. ➤ Soil reclamation methods. 	33

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4.	Environment	Food Chemistry	CSCH32	Skill Based Core Food Chemistry - B.Sc. Chemistry	<ul style="list-style-type: none"> ➤ Basics of foods. ➤ Importance of Nutrients, Vitamins and Minerals. ➤ Food additives and Preservations. ➤ Food adulterations. ➤ Food quality standards. 	19
5.	Environment	Energy Physics	JEPH6B SEPH6B AEPH61	Major Elective - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Understanding the current energy crisis and exploring alternative renewable energy sources. ➤ Utilization of solar energy as a better energy source. ➤ Reducing environmental pollution by switching over to biomass and wind energy. 	125
6.	Environment	Instrumentation Physics I	ASPH32 CSPH32	Skill Based Core - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Choosing electrode materials that are environmentally friendly and sustainable contributes to reducing the environmental impact of medical equipment and procedures. ➤ Display devices should be designed to minimize energy consumption, considering both environmental impact and battery life in portable devices. 	19
7.	Environment / Sustainability	Instrumentation Physics II	ASPH42 CSPH42	Skill Based Core - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Advances in medical instruments often involve the collection and storage of sensitive patient data. ➤ As digital instruments become more prevalent, ensuring the integrity of the data they generate is essential for accurate medical diagnosis and research. 	19

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8.	Environment	Environmental Studies	JEVS11 SEVS11 AEVS11 CEVS11	Part – IV Compulsory Paper B.A. / B.Sc. / B.Com.	<ul style="list-style-type: none"> ➤ Natural resources and their associated issues. ➤ Ecosystem. ➤ Biodiversity and its conservation. ➤ Environmental pollution. ➤ Social and environmental issues. 	1904
9.	Human Values	Value Based Education	JVBE21 SVBE21 AVBE21 CVBE21	Part – IV Compulsory Paper B.A. / B.Sc. / B.Com.	<ul style="list-style-type: none"> ➤ Social justice. ➤ Human rights and biases confronting marginalized people. ➤ Social prejudices and communal harmony. ➤ Media education, globalization and the new world – order. ➤ Values and ethics. 	1842
10.	Human Values	Contemporary Literature	J1TL11 S1TL11 A1TL11 C1TL11	Part – I Tamil B.A. / B. Sc. / B.Com.	<ul style="list-style-type: none"> ➤ The ways to enrich the humane quality. ➤ Inculcation of responsibility in the minds of the younger generation. 	1904
11.	Human Values	Religious Justice Literature	J1TL21 S1TL21 A1TL21 C1TL21	Part – I Tamil B.A. / B.Sc. / B.Com.	<ul style="list-style-type: none"> ➤ Religious literature which ensure maturity ➤ Implanting human values like God-fearing, spirituality and morality in youngsters ➤ Justice literature to develop human values 	1842
12.	Human Values	Epic and Sittrilakiyam	J1TL31 S1TL31 A1TL31 C1TL31	Part – I Tamil B.A. / B.Sc. / B.Com.	<ul style="list-style-type: none"> ➤ Teach the moral values and life stages, shaping how we act ethically. ➤ Emphasize how they shape our character and matter in today's world. 	831
13.	Human Values	Human Rights	JNCO4B SNCO4B	Non-Major Elective - B.Com.	<ul style="list-style-type: none"> ➤ Human rights and violation of human rights. ➤ Rights of the disabled persons. ➤ Bonded labour. ➤ Minorities Rights Commission. 	216

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14.	Human Values	Sangam Literature	J1TL41 S1TL41 A1TL41 C1TL41	Part – I Tamil B.A. / B.Sc. / B.Com.	<ul style="list-style-type: none"> ➤ Teach the tradition and culture of the people of sangam period and their ideology which can mould students morally. ➤ Make the students aware of dowry cruel, caste violence and the problems of rural workers and stimulate them to eradicate these kinds of social evils. ➤ Teach them about antiquity, unique characteristics, faith, virtue and heroism of Tamil Nadu to foster them as a respectful Tamil citizen. 	812
15.	Professional Ethics	Personality Development	JCSB5A SCSB5A ACSB51	Common Skilled Based Subject – B.Sc. / B.Com.	<ul style="list-style-type: none"> ➤ Self-awareness, SWOT analysis and goal setting. ➤ Self-motivation, positive attitude and assertiveness. ➤ Team building, leadership qualities, negotiation skills and conflict management. ➤ Meaningful communication, transactional analysis, emotional intelligence and stress management. ➤ Social etiquettes, table management, dress code, group discussion and interview. 	1070
16.	Professional Ethics	Entrepreneurship Development	SSCO4A ASCO41 CSCO41	Skill Based II – Core – B.Com.	<ul style="list-style-type: none"> ➤ Entrepreneurial skills. ➤ Entrepreneurship dimensions. ➤ Project appraisal. ➤ Launching of new businesses and management of small businesses. 	622

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17.	Professional Ethics	Business Communication Business English	JNEN4A ANEN41	Non-Major Elective II B.Com. / B.Sc. Mathematics	<ul style="list-style-type: none"> ➤ Basic concepts and practices. ➤ Application of concepts & practices in the world. 	70
18.	Professional Ethics	Business Communication	JSCO3A SSCO3A ASCO31 CSCO31	Skilled Based Subject - B.Com.	<ul style="list-style-type: none"> ➤ Importance of Communication, Types and Barriers to Communication. ➤ Drafting business letters. ➤ Resume Preparation. ➤ Types for interview, Preparation for attending interview and tips for successful Interview. ➤ Role of Technology in business Communication. 	692
19.	Professional Ethics	Business Models	JSCO4A	Skill Based Subject II B.Com.	<ul style="list-style-type: none"> ➤ Meaning of Business, Characteristics of an entrepreneur, Business ideas. ➤ Preparing business plan. ➤ Source of finance for small business. ➤ Marketing and Selling Models. ➤ Pricing methods and strategies to face competition. ➤ Models for human resource in business. 	56
20.	Professional Ethics	English for Employability	JNEN3A SNEN31 ANEN31	Non - Major Elective I B.Com. / B.Sc. Mathematics	<ul style="list-style-type: none"> ➤ Language skill Enhancement. ➤ Fostering Employability acumen. 	125

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21.	Professional Ethics	Effective Communication	JCSB5B SCSB5B ACSB52	Common Skill Based B.A. English	<ul style="list-style-type: none"> ➤ Being conversant with different types of communication. ➤ Practices in Viva Voce and interview ➤ Involvement in group discussion, sharing of ideas without inhibitors and evolving a consensual approach to issues. 	226
22.	Professional Ethics	English for Competitive Examination	CNEN31	Non-Major Elective I B.Sc. Mathematics	<ul style="list-style-type: none"> ➤ Evaluate the structures and patterns learnt, and know their distinctive usages. ➤ Create situation-based and content-based expressions and sentences. 	15
23.	Professional Ethics	Content Writing	CNEN41	Non-Major Elective II B.Sc. Mathematics	<ul style="list-style-type: none"> ➤ Develop content as per the business concept. ➤ Write quality content and run their blogs or sites. 	15
24.	Professional Ethics	Maintenance of Electrical Appliances	JSPH3A SSPH3A ASPH31 CSPH31	Skill Based Core - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Operation and safety handling of commonly used domestic appliances. ➤ Prospects of entrepreneurship in the maintenance of electrical appliances. 	138
25.	Professional Ethics	Maintenance of Electronic Appliances	JSPH4A SSPH4A ASPH41 CSPH41	Skill Based Core - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Effective management of communication devices. ➤ Competence and caliber in the maintenance of electronic equipments. 	138
26.	Professional Ethics	Physics of Human Anatomy	JSPH4B SSPH4B	Skill Based Core - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Physics of breathing. ➤ Mechanism to maintain the optimum temperature of the body. ➤ Insights into the miracle of human body functioning. 	119
27.	Professional Ethics	Business Environment	PKCM24	Major - M.Com.	<ul style="list-style-type: none"> ➤ Business and Society. ➤ Business Ethics and Values. ➤ Corporate Governance. ➤ Social responsibility of business 	16

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28.	Professional Ethics	Management Concepts and Organisational Behaviour	PKCM13	Major - M.Com.	<ul style="list-style-type: none"> ➤ Functions of a Manager. ➤ Organisational behaviour. ➤ Attitude, Perception, Learning. ➤ Personality - Transactional Analysis. ➤ Theories of Motivation. ➤ Group dynamics and Leadership Styles. 	16
29.	Professional Ethics	Entrepreneurship Development	PKCE21	Major Elective I - M.Com.	<ul style="list-style-type: none"> ➤ Entrepreneur types, characteristics, affecting factors, skills, functions of Entrepreneurs. ➤ Entrepreneurial motivation, stress management, Entrepreneurial development programme. 	16
30.	Sustainable Development	Journalism and Mass Communication	JMEN5B SEEN5B AEEN52	Major Elective - B.A. English	<ul style="list-style-type: none"> ➤ Understanding the advantages and disadvantages of globalization, industrialization and commercialization of the emerging world. ➤ Awareness about media studies. 	226
31.	Sustainable Development	Writing for the Media	JMEN6B SEEN6B AEEN62	Major Elective - B.A. English	<ul style="list-style-type: none"> ➤ Understanding how social media news use influences a vital aspect of the democratic process. ➤ Explores a mediating role of different types of political discussion. 	223
32.	Sustainable Development	E - Commerce	JACS41 SACS41	Allied - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Ever changing and challenging electronically assisted commercial activities. ➤ An exposure to the emerging types of ecommerce and ensuring an economically viable lifestyle. ➤ Rigours of a globally competitive ecommerce transactions and achieving an inclusive participation. 	145

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33.	Sustainable Development	Machine Learning	AACS41	Allied - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Basic concepts and techniques of Machine Learning. ➤ Thorough understanding of the Supervised and Unsupervised learning techniques. 	24
34.	Sustainable Development	Internet of Things	JMCS6C SECS6A AECS61	Core Elective - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ The progress and advancements in the application of IOT mechanism in the private as well as public life of human beings. ➤ Dependence of IOT technology in the world of education and business contributing to an easy life style. 	166
35.	Sustainable Development	Cloud Computing	SECS5C AECS53	Core Elective - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ The futuristic advances in the field of cloud computing and the need for learning the functioning and usage of it. ➤ A digitalized world wherein the cloud storage of information and data is so essential. ➤ The merits of swift and speedy transactions which improve efficiency; and drastically cuts down cost and wastage. 	130
36.	Sustainable Development	Introduction to Digital Image Processing	AMCS64	Major - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Acquire the fundamental knowledge of introduction to Digital Image Processing. ➤ Understand the features present in Digital Image Processing. 	24
37.	Sustainable Development	Data Communication and Computer Networks	JMCS52 SMCS52 AMCS52	Major - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Understand the concepts in Computer Network and Data Communication. ➤ Know about the various protocols used in network . ➤ Understand the importance of process and scheduling ➤ Understand the issues in synchronization and memory management 	167
38.	Sustainable Development	Software Engineering and Testing	JMCS51 SMCS51 AMCS62	Major - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ To acquire the fundamental knowledge of Software Engineering and to know the various testings performed 	167

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39.	Sustainable Development	Digital Design	JACS21 SACS21 AMCS32 CSCS31	Allied / Major / Skilled Based Core- B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Understand the concept of digital systems, to operate on various 	211
40.	Sustainable Development	Web Technology	JMCS31 SACS31	Major / Allied / - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Analyze a web page and identify its elements and attributes. ➤ Create web pages using XHTML and Cascading Style Sheets. ➤ Build dynamic web pages using JavaScript ➤ Create XML documents and Schemas. 	148
41.	Sustainable Development	Computer Architecture	JACS31 SMCS32 AMCS42 CSCS41	Allied / Major / Skilled Based Core - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Understand the basics of Computers and its Organization. ➤ Know the various Technologies behind the Computer Architecture. 	198
42.	Sustainable Development	Embedded System	JMCS4B	Major Elective - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Acquire knowledge about devices and buses used in embedded networking. ➤ Develop programming skills in embedded systems for various applications. ➤ Acquire knowledge about basic concepts of circuit emulators. 	37
43.	Sustainable Development	Mobile Computing	JMCS5A	Major Elective - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Define mobile technologies in terms of hardware, software, and communications. ➤ Utilize mobile computing nomenclature to describe and analyze existing mobile computing frameworks and architectures. ➤ Evaluate the effectiveness of different mobile computing frameworks. 	37
44.	Sustainable Development	Data Mining Data Ware Housing and Data Mining	JMCS64 SMCS63	Major - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Understand the functionality of the various data mining and data warehousing component. ➤ Appreciate the strengths and limitations of various data mining and data warehousing models. 	142

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45.	Sustainable Development	Android Programming	SSCS4A	Skill Based Core - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Build enterprise level mobile applications with Android and understand both the basic and advanced concepts of Android. ➤ Install and configure Android Studio. ➤ Explain and use key Android programming concepts. 	108
46.	Sustainable Development	Information Security	SMCS42	Major - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Define what information is. ➤ Appreciate the value of information to the modern organization. ➤ Identify the five leading-edge resources that have up-to-date information on information security. 	108
47.	Sustainable Development	Introduction to Big Data Analytics	ASCS31	Skill Based Core - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Understand Big Data Analytics. ➤ Understand the various algorithms in Big Data Analytics. 	24
48.	Sustainable Development	Multimedia Applications	ASCS41	Skill Based Core - B.Sc. Computer Science	<ul style="list-style-type: none"> ➤ Know about the various Applications of Multimedia. 	24
49.	Sustainable Development	Astrophysics	JSPH3B SSPH3B	Skill Based Core - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Solar system and astronomical instruments. ➤ Stellar evolution, spectral classification of stars. ➤ Theories of the universe, galaxies and star clusters. 	119
50.	Sustainable Development	Medical Physics	AEPH62 CEPH62	Major Elective - B.Sc. Physics	<ul style="list-style-type: none"> ➤ Medical facilities, especially those with advanced imaging and radiation therapy equipment, can consume substantial amounts of energy. ➤ Responsible resource management involves reducing waste generation, conserving materials, and recycling whenever possible. Highly specialized field in developing nations. 	19

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51.	Gender	Women's Writing	JMEN5A SEEN5A AEEN51	Major Elective - B.A. English	<ul style="list-style-type: none"> ➤ Sensitizing the educational and modern women about the patriarchal dominance prevailing in the community ➤ The need for the emancipation of women gaining in confidence and courage, and attaining empowerment. 	226


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