



SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

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Ready for
Every Good Work

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

B.Sc. Physics

Semester	Paper	Title of the Paper	Hours/ Week	Credits	Marks	
					CA	SEM
I	Main Core	Mechanics	3	4	30	70
	Main Core	Properties of matter	3	4	30	70
	Allied	Allied Mathematics - I	6	4	30	70
	Main Core Practicals	Physics Main Practicals – I	4	2	40	60
	Language	Tamil	5	3		
	Language	General English	5	3		
		Communicative English	-	1		
	Life Education	Personal Skills	2	1		
Christian Religion-1 / Value Education-1		2	1			
TOTAL			30	23		

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Semester	Paper	Title of the Paper	Hours/ Week	Credits	Marks	
					CA	SEM
II	Main Core	Heat and Thermodynamics	3	4	30	70
	Main Core	Sound	3	4	30	70
	Main Core Practicals	Physics Main Practicals – I	4	2	40	60
	Allied	Allied Mathematics – II	6	4	30	70
	Language	Tamil	5	3		

	Language	General English	5	3		
		Communicative English		1		
	Life Education	Social Skills	2	1		
		Christian Religion-2/Value Education-2	2	1		
TOTAL			30	23		

Semester	Paper	Title of the Paper	Hours/Week	Credits	Marks	
					CA	SEM
III	Main Core	Electromagnetism	3	4	30	70
	Main Core	Optics	3	4	30	70
	Main Core Practicals	Physics Main Practicals – II	4	2	40	60
	Allied	Allied Chemistry -I	6	4	30	70
	Language	Tamil	5	3		
	Language	General English	5	3		
	Life Education	Employability Skills –1	2	1		
		Environmental Science	2	1		
Extra credit Course	Special Project- I	-	2 [#]		100	
TOTAL			30	22+2[#]		

Semester	Paper	Title of the Paper	Hours/Week	Credits	Marks	
					CA	SEM
IV	Main Core	Atomic Physics	3	4	30	70
	Main Core	Spectroscopy	3	4	30	70
	Main Core Practicals	Physics Main Practicals – II	4	2	40	60
	Allied	Allied Chemistry –II	6	4	30	70
	Language	Tamil	5	3		
	Language	General English	5	3		
	Life Education	Employability Skills –2	2	1		
		Human Rights	2	1		
Extra credit Course	Special Project II (Repair and Maintenance of Lab Equipments)	-	2 [#]		100	

	Extension	DEEDS	-	2		
		SHELTERS	-	2		
TOTAL			30	26+2[#]		

Semester	Paper	Title of the Paper	Hours/ Week	Credits	Marks	
					CA	SEM
V	Main Core	Classical mechanics and Statistical physics	4	4	30	70
	Main Core	Basic Electronics	4	4	30	70
	Main Core	Solid State Physics	4	4	30	70
	Main Core	Mathematical Physics	4	4	30	70
	Main Core	Physics Main Practicals – III (General experiments)	3	3	40	60
	Main Core	Physics Main Practicals – IV (Electronic experiments)	3	3	40	60
	Subject Elective	1. Crystal Growth & Nano Technology 2. Electronic communication systems 3. Renewable Energy and Energy Harvesting	3	2	30	70
	Subject Elective	1. Applied optics 2. 8085 Microprocessor and its applications 3. Medical Physics	3	2	30	70
	Self Study Paper	Astrophysics	-	1*	-	100
	Non Major Elective	Repair and maintenance of household appliances	2	1	30	70
TOTAL			30	27+1*		

Semester	Paper	Title of the Paper	Hours/ Week	Credits	Marks	
					CA	SEM
VI	Main Core	Applied Electronics	5	5	30	70
	Main Core	Nuclear Physics	5	5	30	70
	Main Core	Quantum Mechanics and Relativity	4	4	30	70
	Main Core	Physics Main Practicals – III (General experiments)	2	2	40	60
	Main Core	Physics Main Practicals – IV (Electronic experiments)	2	2	40	60
	Subject skill	Electrical circuits and Networks	5	4	40	60
	Subject skill	Basic Instrumentation	5	4	40	60

	Self Study Paper	Physics Revisited	–	1*	-	100
	Non Major Elective	Physics in everyday life	2	1	30	70
Total			30	27+1*		

Sacred Heart College (Autonomous), Tirupattur District

1.2.1 List of New Courses

Department: B.A.History

S. No	Course Code	Course Name
1.	HT101	History of India Up To 712 A.D.
2.	HT102	History of Tamil Nadu Up To 1336 A.D.
3.	AH110	Principles of Tourism
4.	HT201	History of India (712-1526 A.D.)
5.	HT202	History of Tamil Nadu (1336-1947 A.D.)
6.	AH210	Tourism and Travel Management

SYLLABUS

Year/Semester: I Year / I Semester

Code:HT101

Credits: 5
5

Hours/Week:

HISTORY OF INDIA UP TO 712 A.D.

Objectives:

- To impart the main features of the cultural heritage of early India.
- To enable the students to learn the political, social, economic and religious condition of India.

Unit – I: Sources: Archaeological sources – Literary sources – Foreign accounts – Geographical Features – Pre and Proto-history: Paleolithic Age – Mesolithic Age – Neolithic Age – Chalcolithic Age – Indus Valley Civilization.

Unit – II: Aryans and Vedic Period: Expansion of Aryans in India – Rig Vedic Period – Later Vedic Period: Political – Social and Economic life – Evolution of Monarchy and Varna System – Mahajanapadas – Emergence of Jainism and Buddhism.

Unit – III: Mauryan Empire: Chandragupta – Bindusara – Ashoka: Concept of Dharma – Edicts – Administration – Economy – Art and Architecture – Disintegration of the Empire.

Unit – IV: Post-Mauryan Period: Sungas – Kanvas – Indo-Greeks – Sakas – Kushanas: Art and Architecture – Kharavelas – Satavahanas.

Unit – V: Gupta and Post Gupta Period: Political History – Administration – Art and Architecture – Literature – Harsha Vardhana – Arab Conquest of Sind.

Outcomes:

- The student can understand the cultural foundations of India and its gradual achievements over the years.
- The student would have a background understanding of the socio – economic, political and religious developments shaping India in its early phase.

Text Books:

1. Khurana K.L., Ancient India, Lakshmi Narain Agarwal, Agra, 2001.
2. Mahajan V. D., Ancient India, S. Chand & Co., New Delhi, 2019.

Books for Reference:

1. Basham A.L., The Wonder that was India, London, Macmillan, 2004.
2. Luniya B.N., Evolution of Indian Culture, Agra, Lakshmi Narain Publication, 2005.
3. Majumdar R.C., Raychaudhuri H.C. and Datta K., An Advanced History of India, Macmillan, Chennai, 2004.

Year/Semester: I Year / I Semester

Code:HT102

Credits: 5
5

Hours/Week:

HISTORY OF TAMIL NADU UP TO 1336 A.D.

Objectives:

- To become aware of the political, social and economic developments of Tamilnadu.
- To enable the students to learn the cultural contribution of ancient Tamils.

Unit – I: Sources – Geographical Features – Sangam Age – Cheras – Cholas – Pandyas – Administration – Society – Economy – Literature – Kalabhra Interregnum.

Unit – II: Pallavas: Origin – Early Pallavas and Later Pallavas – Political, Social and Economic Conditions – Bhakthi Movement – Art and Architecture – Literature – First Pandyan Empire.

Unit – III: Imperial Cholas – Vijayalaya – Raja Raja – I and Rajendra – I – Later Cholas: Kulothunga I – Administration – Social, Economic and Religious Conditions – Art and Architecture – Disintegration.

Unit – IV: Second Pandya Empire: Maravarman Sundara Pandyan I – Jatavaraman Sundra Pandya I – Maravarman Kulasekara Pandya – Administration – Social, Economic and Religious Conditions – Art and Architecture.

Unit – V: Muslim Invasions: Malik Kafur – Khusru khan – Ulugh khan – Establishment of Madurai Sultanate – Subordinate Chieftains of Medieval Period – Overseas contact of the Tamils.

Outcomes:

- The student knows the formation of various ruling dynasties and the consequent socio – economic and political developments in Tamilnadu.
- The student would understand the enriched cultural contribution of the Tamils.

Text Book:

Devanesan A., History of Tamil Nadu, Marthandam, Renu Publication, 2004.
Subramaniam N., History of Tamilnad upto 1336 A.D., Koodal Publishers, Madurai, 1972.

Books for Reference:

1. Chopra P.N., Ravindran T.K. and Subramanian N., History of South India: Ancient, Medieval & Modern, Delhi, Chand and Co., 2010.
2. Kanakasabhai V., The Tamils Eighteen Hundred Years Ago, New Delhi, Asian Educational Services, 1979.
3. Manoranjithamoni. C, History of Tamilnadu upto 1565 AD, Dave – Beryl Publications, Tirunelveli, 2012.
4. Nilakanta Sastri K. A., A History of South India: From Pre-historic Times to the Fall of Vijayanagar, Oxford University Press, Madras, 1958.
5. Nilakanta Sastri K. A., The Colas, University of Madras, 2000.
6. Pillai K.K., A Social History of the Tamils, University of Madras, 1975.
7. Srinivasa Iyengar P.T., History of the Tamils: From the Earliest Times to 600 A.D., New Delhi, Asian Educational Services, 1989.

Year/Semester: I Year / I Semester

Code: AH110

Credits: 4
6

Hours/Week:

Allied – I: PRINCIPLES OF TOURISM

Objectives:

- To enable the students to understand the importance of tourism.
- To study about the development of tourism as an industry.

Unit – I: Nature and Scope of Tourism – Origin and Growth – Basic Components and Elements – Importance of Tourism.

Unit – II: Types of Tourism: Cultural – Adventure – Sports – Religious – Medical – Business – Ethnic and Eco-Tourism.

Unit – III: Tourism Product and Marketing: Characteristics, Nature and Types Products – Marketing Services – Familiarization Tours – Marketing Research.

Unit – IV: Tourism and Contemporary Issues: Tourism as an Industry – Role of Information Technology – Environmental Concerns – Human Rights and Tourism – Emerging Trends in Tourism.

Unit – V: Impact of Tourism: Social, Economic and Cultural Impact of Tourism – Multiplier Effect – Tourism and International Trade – Tourism and International Understanding: Manila Declaration.

Outcomes:

- It would enable the students to realize the significance of tourism for a nation.
- The students absorb the nuances on the evolution of tourism.

Text Book:

1. Barkat A. M. A., Travel and Tourism Management, New Delhi, Prentice Hall India Learning, 2015.
2. Bhatia A. K., Tourism Development: Principals and Practices, New Delhi, Sterling Publishers, 1983.

Books for Reference:

1. Charles R. Goeldner and Brent Ritchie J. R., Tourism: Principles, Practices, Philosophies, John Wiley & Sons, New Jersey, 2009.
2. Gill Pushpinda S., Dynamics of Tourism, Anmol Publication, Delhi 1999.
3. [Kunal Chattopadhyay](#), Economic Impact of Tourism Development: An Indian Experience, Kanishka, 1995.
4. Lajipathi Raj H., Development of Tourism in India, Ropa Books, Hyderabad, 1993.
5. Page Stephen J., Tourism Management, New York, Routledge, 2015.
6. Parveen Sethi, Hand Book of Tourism, Anmol Publication, New Delhi, 1999.
7. Parveen Sethi, Millennium Trends in Travel and Tourism, Rajat Publication, Delhi 2002.
8. Percy. K. Singh, 50 years of Indian Tourism, Kanishka Publishers, Delhi, 1998.
9. Pran Nath Seth, Successful Tourism Management, New Delhi, Sterling Publishers, 1997.
10. Romila Chawla, Coastal Tourism and Development, Sonali Publications, New Delhi, 2004.

11. Sunetra Roday, Archana Biwal, Vandana Joshi, Tourism: Operations and Management, New Delhi, Oxford University Press, 2009.

Year/Semester: I Year / II Semester

Code:HT201

Credits: 5
5

Hours/Week:

HISTORY OF INDIA (712 – 1526 A.D.)

Objectives:

- To enable the students to acquire knowledge about the role of Rajputs and Delhi Sultanate.
- To enable the students to learn the economic and religious policies pursued by the great rulers.

Unit – I: Impact of Arab's Invasion – Rajputs – Pratiharas – Palas – Chauhans – Rashtrakutas – Invasions of Muhammad Ghazni and Muhammad Ghori.

Unit – II: Slave Dynasty: Consolidation of the Delhi Sultanate – Qutb-Ud-Din Aibak – Iltutmish – Sultan Razia – Balban – Khalji Dynasty: Jalal-Ud-Din Khalji – Ala-Ud-Din Khalji.

Unit – III: Tughlaq Dynasty: Ghiyas-Ud-Din Tughlaq – Muhammed Bin Tughlaq – Feroz Tughlaq – Timur's Invasion.

Unit – IV: Sayyids and Lodis – Decline of the Sultanate – Administration – Social and Economic Condition – Art and Architecture.

Unit – V: Vijayanagar Empire: Polity and Administration – Social and Economic Condition – Art and Literature – Bahmani Kingdom.

Outcomes:

- The students are exposed to political and administrative aspects of the medieval period.
- It facilitates the understanding of the Delhi Sultanate's society, economy and culture.

Text Book:

1. Khurana K.L., History of India: Earliest Times to 1761 A.D., Lakshmi Narain Agarwal, Agra, 2006.
2. Mahajan V. D., History of Medieval India, S. Chand & Co., New Delhi, 2019.

Books for Reference:

1. Chaurasia R. S., History of Medieval India: From 1000 A.D. to 1707 A.D, New Delhi, Atlantic, 2002.
2. Habibullah ABM., The foundation of Muslim Rule in India, Central Book Depot, Allahabad, 1976.
3. Lanepoole, Medieval India, Universal Publication, Delhi, 1971.
4. Majumdar R. C., Raychaudhuri H.C. and Dutt R.C., An Advanced History of India, Macmillan, Chennai, 2004.
5. Mehta J.L., Medieval India, Sterling Publication, New Delhi, 1979.
6. Natarajan S., and Prema Ramakrishnan, Political and Cultural History of India, Secunderabad, 1991.
7. Satish Chandra, Medieval India, Part I & II, New Delhi, NCERT, 1971.
8. Sharma L.P., Medieval India, Konark Publication, New Delhi, 1993.
9. Srivastava M.Y., Society and Culture in Medieval India, Allahabad, Chugh Publication, 1975.
10. Srivastava A.L., History of India 1000 to 1707, Shivalal Agarwal Publication, Agra, 1976.

11. Tripathi R. P., Some Aspects of Muslim Administration, Central Book Depot, Allahabad, 1992.

Year/Semester: I Year / II Semester

Code:HT202

Credits: 5
5

Hours/Week:

HISTORY OF TAMIL NADU (1336 – 1947 A.D.)

Objectives

- To become aware of the political, social and cultural developments of Tamilnadu.
- To enable the students to understand the impact of British administration and the role of Tamilnadu in freedom movement.

Unit – I: Sources – Tamilnadu under Vijayanagar Rule – Nayaks of Madurai, Tanjore and Senji: Political, Social, Economic and Cultural Contributions.

Unit – II: Marathas of Tanjore – Marava kingdoms of Ramnad and Sivaganga – Thondamans of Pudukottai – Nawabs of Arcot: Zulfiqar Ali Khan, Sadatullah Khan and Muhammad Ali.

Unit – III: Advent of the Europeans: Portuguese – Dutch – Danes – French – English – Anglo – French conflict in the Carnatic – Anglo Mysore Wars.

Unit – IV: Tamilnadu under the British Rule – Ryotwari Settlement – Christian Missionaries: Tamil Revivalism and Education – Poligar Rebellion – Vellore Mutiny – Social and Religious Reformers: Ramalinga Adigal, Vaikunda Swamigal, Rettamalai Srinivasan and Iyothee Thass Pandithar.

Unit – V: Role of Tamilnadu in the Freedom Movement – Political Awakening: Madras Native Association – Madras Mahajana Sabha – Justice Party – Self – Respect Movement – Dravidar Kazhagam.

Outcomes:

- The students would realize the socio – economic and political developments under various rulers up to the arrival of European powers in Tamilnadu.
- The British rule, various reform movements and freedom struggle as well as the governance of Tamilnadu after independence as a focal point of understanding.

Text Books:

1. Devanesan A., History of Tamil Nadu, Marthandam, 2004.
2. Subramaniam N., Social and Cultural History of Tamilnad (1336 – 1984 A.D.), Ennes Publications, Udumalpet, 1994.

Books for Reference:

1. Chopra P.N., Ravindran T.K. and Subramanian N., History of South India, Chand and Co. Delhi, 1979.
2. Eugene F. Irshick, Politics and Social Conflict in South India, The Non-Brahman Movement and Tamil Separatism, 1916-1929, Bombay, OUP, 1969.
3. Kanakasabhai V., The Tamils Eighteen Hundred Years Ago, Asian Educational Services, New Delhi, 1979.
4. Rajayyan K., History of Tamilnadu, (1565-1965), Madurai Publishing House, Madurai, 1977
5. Sathyanatha Aiyar R., History of the Nayaks of Madura, University of Madras, 1980.
6. Srinivasan C.K., The Maratha Rule in the Carnatic, Annamalai University, 1944.
7. Varghese Jeyaraj S., Social-Economic History of Tamil Nadu (1565-1967), Uthamaalayam, Anns Publications, 2017.
8. Vriddhagirisan V., The Nayaks of Tanjore, Asian Educational Service, New Delhi, 1955.

Year/Semester: I Year / II Semester

Code: AH210

Credits: 4
5

Hours/Week:

Allied – II: TOURISM AND TRAVEL MANAGEMENT

Objectives:

- To enable the students to understand the origin and development of tourism in India.
- To make them to know about the importance of travel management and the relative role of regional, national and international organisations.

Unit – I: International Tourism Organisations: United Nations World Tourism Organisations (UNWTO) – International Air Transport Association (IATA) – United Federation of Travel Agents Association (UFTAA) – Pacific Asia Travel Association (PATA).

Unit – II: Tourism in India: Development of Tourism – Sargent Committee – Tourist Information Offices – Ministry of Tourism – Department of Tourism – India Tourism Development Corporation – State Tourism Development Corporation – Tamilnadu Tourism Development Corporation (TNTDC).

Unit – III: Travel Agents and Tour Operators: Types of Travel Agencies – Functions – Sources of Income – Types of Tour Operators – Package Tours.

Unit – IV: Tourism Regulations: Travel Regulations – Economic Regulations – Health Regulations – Law and Order Regulations.

Unit – V: Tourism Management: Accommodation – Modes of Transport – Indian Railway Catering and Tourism Corporation (IRCTC) – Dimensions of Domestic and International Tourism.

Outcomes:

- The student will understand the growth of tourism since independence of India.
- The student would know the various issues on tourism planning and the role of various national and international organizations.

Text Books:

1. Barkat A. M. A., Travel and Tourism Management, New Delhi, Prentice Hall India Learning, 2015.
2. Bhatia A. K., Tourism Development: Principals and Practices, New Delhi, Sterling Publishers, 2018.

Books for Reference:

1. Charles R. Goeldner and Brent Ritchie J. R., Tourism: Principles, Practices, Philosophies, John Wiley & Sons, New Jersey, 2009.
2. Gill Pushpinda S., Dynamics of Tourism, Anmol Publication, Delhi 1999.
3. [Kunal Chattopadhyay](#), Economic Impact of Tourism Development: An Indian Experience, Kanishka, 1995.
4. Lajipathi Raj H., Development of Tourism in India, Ropa Books, Hyderabad, 1993.
5. Page Stephen J., Tourism Management, New York, Routledge, 2015.
6. Parveen Sethi, Hand Book of Tourism, Anmol Publication, New Delhi, 1999.
7. Parveen Sethi, Millennium Trends in Travel and Tourism, Rajat Publication, Delhi 2002.
8. Pran Nath Seth, Successful Tourism Management, New Delhi, Sterling Publishers, 1997.
9. Sunetra Roday, Archana Biwal, Vandana Joshi, Tourism: Operations and Management, New Delhi, Oxford University Press, 2009.