KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
®

(**An Autonomous Institution** - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near **VIRUDHUNAGAR**).

AUDIT COURSES

S.No.	Course Category	Course Code	Course title	L	T	P	C
1.	AUD	AUD101	Constitution of India	3	0	0	0
2.	AUD	AUD102	Value Education	3	0	0	0
3.	AUD	AUD103	Teaching and Learning	3	0	0	0
4.	AUD	AUD104	Stress Relieving Management by Yoga	3	0	0	0
5.	AUD	AUD105	Developing your personality	3	0	0	0
6.	AUD	AUD106	Essence of Indian Knowledge and Tradition	3	0	0	0
7.	AUD	AUD107	Appreciation of Sangam era Tamil Literature	3	0	0	0
8.	AUD	AUD109	Heritage of Tamils	1	0	0	0
9.	AUD	AUD110	Tamils and Technology	1	0	0	0

AUD101	CONSTITUTION OF INDIA	L	T	P	C
		3	0	0	0

OBJECTIVES:

This course enables the students to

- Teach history and functionality of Indian Constitution.
- Describe the premises informing the twin themes of liberty and freedom from a civil rightsperspective.
- Summarize powers and functions of Indian government.
- Explain structure and functions of local administration.
- Develop an idea about the functionality of the Indian Constitution

UNIT I	INTRODUCTION	9

History of Making of the Indian Constitution-Drafting Committee- (Composition & Working) -Philosophy of the Indian Constitution-Preamble-Salient Features.

UNIT II	CONTOURS OF CONSTITUTIONAL RIGHTS & DUTIES	9

Fundamental Rights-Right to Equality-Right to Freedom-Right against Exploitation Right to Freedom of Religion-Cultural and Educational Rights-Right to Constitutional Remedies Directive Principles of State Policy-Fundamental Duties.

UNIT III	ORGANS OF GOVERNANCE	9

Parliament - Composition - Qualifications and Disqualifications-Powers and Functions-Executive President-Governor-Council of Ministers - Judiciary, Appointment and Transfer of Judges, Qualifications Powers and Functions-Constitutional amendment provisions.

UNIT IV	LOCAL ADMINISTRATION	9

District's Administration head- Role and Importance-Municipalities- Introduction- Mayor and role of Elected Representative-CEO of Municipal Corporation-Pachayati raj-Introduction- PRI- Zila Pachayat- Elected officials and their roles- CEO ZilaPachayat-Position and role-Block level-Organizational Hierarchy (Different departments)-Village level- Role of Elected and Appointed officials-Importance of grass root management.

UNIT V	FUNCTIONAL ASPECTS	9

Right to information, Right to education, Interpretation of Govt policies, finance-related content, income tax, GST, etc. And their functionalities in students day to day life –Youth Parliament.

TOTAL: 45 PERIODS

OUTCOMES:		

OUTCOMES:
After successful completion of the course, the students will be able to:

CO1	Understand history and philosophy of Indian constitution.
CO2	Understand the premises informing the twin themes of liberty and freedom from a civil rights perspective.
CO3	Understand powers and functions of Indian government
CO4	Understand structure and functions of local administration.
CO5	Understand the functionality of the constitution.

TEXT BOOKS:

1. Basu D. D., 2015. *Introduction to the Constitution of India,* Lexis Nexis.

2. Busi S N, and Ambedkar B. R., 2015. *Framing of Indian Constitution,* 1st Edition.

3. Jain M P., 2014. *Indian Constitution Law*, 7th Edn., Lexis Nexis.

4. The Constitution of India (Bare Act), Government Publication, 1950.

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1									M			M
CO2									M			M
CO3									M			M
CO4									M			M
CO5									M			M

H – High; M – Medium; L – Low

AUD102	VALUE EDUCATION	L	T	P	C
		3	0	0	0

OBJECTIVES:

This course enables the students to

- Develop knowledge of self-development
- Explain the importance of Human values
- Develop the overall personality through value education
- Overcome the self-destructive habits with value education
- Interpret social empowerment with value education

UNIT I	INTRODUCTION TO VALUE EDUCATION	9

Values and self-development –Social values and individual attitudes, Work ethics, Indian vision of humanism, Moral and non- moral valuation, Standards and principles, Value judgements.

UNIT II	IMPORTANCE OF VALUES	9

Importance of cultivation of values, Sense of duty, Devotion, Self-reliance, Confidence, Concentration, Truthfulness, Cleanliness. Honesty, Humanity, Power of faith, National Unity, Patriotism, Love for nature, Discipline.

UNIT III	INFLUENCE OF VALUE EDUCATION	9

Personality and Behaviour development - Soul and Scientific attitude. Positive Thinking, Integrity and discipline, Punctuality, Love and Kindness, Avoid fault Thinking, Free from anger, Dignity of labour, Universal brotherhood and religious tolerance, True friendshipHappiness Vs suffering, love for truth.

UNIT IV	REINCARNATION THROUGH VALUE EDUCATION	9

Aware of self - destructive habits, Association and Cooperation, Doing best for saving nature Character and Competence –Holy books vs Blind faith, Self - management and Good health, Science of reincarnation.

UNIT V	VALUE EDUCATION IN SOCIAL EMPOWERMENT	9

Equality, Nonviolence, Humility, Role of Women, All religions and same message, Mind your Mind, Self-control, Honesty, Studying effectively-Necessity of values in a society - case studies on countries who suffered due to lack of values in their leaders.

TOTAL: 45 PERIODS

OUTCOMES:
After successful completion of the course, the students will be able to:

CO1	Gain knowledge of self-development
CO2	Learn the importance of Human values
CO3	Develop the overall personality through value education
CO4	Overcome the self-destructive habits with value education
CO5	Interpret social empowerment with value education

REFERENCE BOOKS:

1 Chakroborty, S.K., 1998, *Values and Ethics for organizations Theory and practice*, Oxford University Press, New Delhi.

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1							M	M				M
CO2							M	M	M			M
CO3							M	M	M			M
CO4							M	M				M
CO5							M	M				M

H – High; M – Medium; L – Low

AUD103	TEACHING AND LEARNING	L	T	P	C
		3	0	0	0

OBJECTIVES:

This course enables the students to

- Understand the methodology of andragogy.
- Compare andragogical practices used by teachers in formal and informal classrooms in developingcountries.
- Infer how can teacher education (curriculum and practicum) and the respective curriculum and guidance materials best support effective andragogy.
- Illustrate the factors necessary for professional development.
- Understand the importance of Outcome based Education.

UNIT I	**INTRODUCTION AND METHODOLOGY**	9

Aims and rationale, Policy background, Conceptual framework and terminology - Theories of learning, Curriculum, Teacher education - Conceptual framework, Research questions - Overview of methodology and Searching.

UNIT II	**THEMATIC OVERVIEW**	9

Andragogical practices - used by teachers in formal and informal classrooms in developing countries - Curriculum, Teacher education.

UNIT III	**EVIDENCE ON THE EFFECTIVENESS OF ANDRAGOGICAL PRACTICES**	9

Methodology for the in depth stage: quality assessment of included studies - How can teacher education (curriculum and practicum) and the respective curriculum and guidance materials best support effective Andragogy? - Theory of change - Strength and nature of the body of evidence for effective Andragogical practices - Andragogic theory and Andragogical approaches - Teachers' attitudes and beliefs and Andragogic strategies.

UNIT IV	**PROFESSIONAL DEVELOPMENT**	9

Professional development: alignment with classroom practices and follow up support - Peer support - Support from the head teacher and the community - Curriculum and assessment - Barriers tolearning: limited resources and large class sizes.

UNIT V	**OUTCOME BASED EDUCATION**	9

Outcome Based Education and its importance, Instructional Strategies, Enabled Teaching and Learning, Assessment and Evaluation, Feedback and Reflection.

	TOTAL: 45 PERIODS

OUTCOMES:		
After successful completion of the course, the students will be able to:		
CO1	Understand the methodology of andragogy.	
CO2	Understand andragogical practices used by teachers in formal and informal classrooms indeveloping countries.	
CO3	Find how can teacher education (curriculum and practicum) and the school curriculum andguidance materials best support effective pedagogy.	
CO4	Know the factors necessary for professional development.	
CO5	Identify the practices used in Outcome Based Education.	

REFERENCE BOOKS:

1 Ackers J, and Hardman F., 2001. *Classroom interaction in Kenyan primary schools*, Compare, 31 (2):245-261.

2 Agrawal M., 2004. *Curricular reform in schools: The importance of evaluation*, Journal ofCurriculum Studies, 36 (3): 361-379.

3 Akyeampong. K., 2003. *Teacher training in Ghana - does it count? Multi-site teacher education research project (MUSTER) country report 1,* London: DFID.

4 Akyeampong K, Lussier K, Pryor J, and Westbrook, J., 2013. *Improving teaching and learning of basic maths and reading in Africa: Does teacher preparation count? International Journal Educational Development*, 33 (3): 272–282.

5 Alexander R.J., 2001. *Culture and pedagogy: International comparisons in primary education,*Oxford and Boston: Blackwell.

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												M
CO2												M
CO3												M
CO4												M
CO5												M

H – High; M – Medium; L – Low

AUD104	STRESS RELIEVING MANAGEMENT BY YOGA	L	T	P	C
		3	0	0	0

OBJECTIVES:

This course enables the students to

- Develop healthy mind in a healthy body thus improving social health also improve efficiency
- Invent Do's and Don't's in life through Yam
- Categorize Do's and Don't's in life through Niyam
- Develop a healthy mind and body through YogaAsans
- Invent breathing techniques through Pranayam

UNIT I	INTRODUCTION TO YOGA	9

Definitions of Eight parts of yog. (Ashtanga)

UNIT II	YAMAM	9

Do`s and Don't's in life - Shaucha, santosh, tapa, swadhyay, ishwarpranidhan

UNIT III	NIYAMAM	9

Do`s and Don't's in life - Ahinsa, satya, astheya, bramhacharya and aparigraha

UNIT IV	ASANAM	9

Various yog poses and their benefits for mind & body

UNIT V	PRANAYAM	9

Regularization of breathing techniques and its effects-Types of pranayam

TOTAL: 45 PERIODS

OUTCOMES:
After successful completion of the course, the students will be able to:

CO1	Develop a healthy mind in a healthy body thus improving social health also improve efficiency.
CO2	Learn Do's and Don't's in life through Yamam.
CO3	Learn Do's and Don't's in life through Niyam.
CO4	Develop a healthy mind and body through Yogasanams.
CO5	Learn breathing techniques through Pranayam.

REFERENCE BOOKS:

1   Rajayoga or conquering the Internal Nature, by Swami Vivekananda, Advaita Ashrama (Publication Department), Kolkata.

2   Yogic Asanas for Group Training-Part-I,: Janardan Swami Yogabhyasi Mandal, Nagpur

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1							M	M				M
CO2							M	M				M
CO3							M	M				M
CO4							M	M				M
CO5							M	M				M

H – High; M – Medium; L – Low

AUD105	DEVELOPING YOUR PERSONALITY	L	T	P	C
		3	0	0	0

OBJECTIVES:

This course enables the students to

- Acquire Self-Management Skills.
- Strengthen their Soft Skills.
- Develop their habits of success.
- Nurture their emotional intelligence.
- Develop a growth mindset.

UNIT I	AN INTRODUCTION TO SOFT SKILLS	9

Introduction: A New Approach To Learning- Human Perceptions: Understanding People-Types of Soft Skills- Planning And Goal-Setting-Aiming For Excellence-Need Achievement And Spiritual Intelligence.

UNIT II	SELF-MANAGEMENT SKILLS	9

Self-Management- Self Evaluation- Self discipline, -Self criticism - Recognition of one's own limits and deficiencies - Self Awareness- Self Management -SWOT Analysis - Managing self – emotions, ego, pride.

UNIT III	HABITS OF SUCCESS	9

Guiding Principles-Habits: Identifying Good And Bad Habits - Habits: Habit Cycle - Breaking Bad Habits-Using The Zeigarnik Effect For Productivity And Personal Growth.

UNIT IV	EMOTIONAL INTELLIGENCE	9

IQ and EQ-Comparison-Importance of EQ -academic, professional, social, and interpersonal aspects.

UNIT V	DEVELOPING A GROWTH MINDSET	9

Definitions and Types of Mindset-Learning Mindsets-Secrets of developing growth mindset- Transformation of mindset.

TOTAL: 45 PERIODS

OUTCOMES:

After successful completion of the course, the students will be able to:

CO1	Acquire soft skills to realize their potential.
CO2	Personalize Self-Management Skills efficiently.
CO3	Practise Zeigarnik Effect for Personal Growth.
CO4	Understand the various aspects of emotional intelligence.
CO5	Demonstrate a growth mindset.

REFERENCE BOOKS:
1 Ghosh, B.N., 2012. *Managing Soft Skills for Personality Development*, McGraw Hill India, 2012.
2 Goleman, D., 1995. *Emotional Intelligence*, Bantam books.
3 Sherfield, R. M., Montgomery, R.J., and Moody, P, G., 2010. *Developing Soft Skills*. 4th ed. New Delhi: Pearson.

DIGITAL SOURCES:
- http://www.mindtools.com
- http:franklin covey.com
- https://dweck.socialpsychology.org/

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1										M		
CO2										M		
CO3										M		
CO4										M		
CO5										M		

H – High; M – Medium; L – Low

AUD106	ESSENCE OF INDIAN KNOWLEDGE AND TRADITION	L	T	P	C
		3	0	0	3

OBJECTIVES:

This course enables the students to

- Get a knowledge about Indian Culture
- Know Indian Languages and Literature religion and philosophy and the fine arts in India
- Explore the Science and Scientists of Ancient, Medieval and Modern India
- Understand education systems in India.

UNIT I	INTRODUCTION TO CULTURE	9

Culture, civilization, culture and heritage, general characteristics of culture, importance of culture in human literature, Indian Culture, Ancient India, Medieval India, Modern India.

UNIT II	RELIGION AND PHILOSOPHY	9

Major religions practiced in India and Understanding their Philosophy – religious movements in Modern India (Selected movements only).

UNIT III	INDIAN FINE ARTS AND LITERATURE	9

Indian Painting, Indian handicrafts, Music, divisions of Indian classical music, modern Indian music, Dance and Drama-Introduction to North Indian and South Indian Literature.

UNIT IV	SCIENCE, TECHNOLOGY & ENGINEERING	9

Architecture (ancient, medieval and modern), Science and Technology in India, development of science and technology with reference to town planning, dams construction, irrigation system etc., in ancient, medieval and modern India.

UNIT V	EDUCATION SYSTEM IN INDIA	9

Education in ancient, medieval and modern India, aims of education, subjects, languages, Science and Scientists of Ancient India, Science and Scientists of Medieval India, Scientists of Modern India.

TOTAL: 45 PERIODS

OUTCOMES:

After successful completion of the course, the students will be able to:

CO1	Understand philosophy of Indian culture.
CO2	Learn the philosophy and religious movements in modern India.
CO3	Acquire the information about the fine arts in India.
CO4	Understand the importance of science, technology and engineering in India
CO5	Know the education systems and contribution of scientists of different eras to India.

REFERENCE BOOKS:

1. Kapil Kapoor., 2005. *Text and Interpretation: The India Tradition*, ISBN: 81246033375.

2. Science in Samskrit, Samskrita Bharti Publisher, ISBN 13: 978-8187276333,2007

3. NCERT, Position paper on Arts, Music, Dance and Theatre, ISBN 81-7450 494-X, 2006.

4. Narain., 1993. *Examinations in ancient India*, Arya Book Depot.

5. Satya Prakash., 1989. *Founders of Sciences in Ancient India*, Vijay Kumar Publisher.

6. M. Hiriyanna., 2014. *Essentials of Indian Philosophy*, Motilal Banarsidass Publishers, ISBN 13: 978-8120810990.

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1										M		
CO2										M		
CO3										M		
CO4										M		
CO5										M		

H – High; M – Medium; L – Low

AUD107	APPRECIATION OF SANGAM ERA TAMIL LITERATURE	L	T	P	C
		3	0	0	0

OBJECTIVES:

This course enables the students to

- Introduction to Sangam Tamil Literature.
- 'Agathinai' and 'Purathinai' in Sangam Tamil Literature.
- 'Attruppadai' in Sangam Tamil Literature.
- 'Puranaanuru' in Sangam Tamil Literature.
- 'Pathitrupaththu' in Sangam Tamil Literature.

UNIT I	SANGAM TAMIL LITERATURE AN INTRODUCTION	9

Introduction to Tamil Sangam–History of Tamil Three Sangams–Introduction to Tamil Sangam Literature–Tamil Sangam Literature's parables- Keeladi excavation research details and its significance.

UNIT II	'AGATHINAI' AND 'PURATHINAI'	9

Tholkappiyar's Meaningful Verses–Three literature materials–Agathinai's message-History of Culturefrom Agathinai– Purathinai–Classification–Message to Society from Purathinai.

UNIT III	'ATTRUPPADAI'	9

Attruppadai Literature–Attruppadaiin 'Puranaanuru'-Attruppadaiin 'Pathitrupaththu'-Attruppadai in 'Paththupaattu'.

UNIT IV	'PURANAANURU'	9

Puranaanuru on Good Administration, Rulerand Subjects–Emotion &its Effect in Puranaanuru.

UNIT V	'PATHITRUPATHTHU'	9

Pathitrupaththuin 'Ettuthogai'–Pathitrupaththu'sParables–Tamildynasty:Valor, Administration, Charity in Pathitrupaththu-Muthollayirum- Message to Society.

	TOTAL: 45 PERIODS

OUTCOMES:	
After successful completion of the course, the students will be able to:	
CO1	Appreciate and apply the messages in Sanga Tamil Literature in their life.
CO2	Differentiate 'Agathinai' and 'Purathinai'in their personal and societal life.
CO3	Appreciate and apply the messages in' Attruppadai' in their personal and societal life.
CO4	Appreciate and apply the messages in' Puranaanuru' in their personal and societal life.
CO5	Appreciate and apply the messages in' Pathitrupaththu' in their personal and societal life.

REFERENCE BOOKS:

1 Sivaraja Pillai., 2018. *The Chronology of the Early Tamils*, Sagwan Press.

2 IraiAnbu. V., 2018. *Ilakkiyaththil Melaanmai,* New Century book House.

3 Kamil Zvelebil., 1997. *The Smile of Murugan: OnTamil Literature of South India,* Brill AcademicPub.

4 GeorgeL. Hart, 2015. *Poets of the Tamil Anthologies: Ancient Poems of Love and War*, PrincetonUniversity Press.

5 XavierS.Thani Nayagam., 1967. *Landscape and poetry:a study of nature in classical Tamilpoetry*,Asia Pub. House.

MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1									M			
CO2									M			
CO3									M			
CO4									M			
CO5									M			

H – High; M – Medium; L – Low

AUD109	HERITAGE OF TAMILS	L	T	P	C
		1	0	0	0

OBJECTIVES:

This course enables the students to

- provide an insight to the students into the rich culture and heritage of the state.
- provide the students detailed information on the engineering techniques to construct architectural marvels practiced in Tamil Nādu.
- make the students connect with their roots, appreciate, and preserve it.

UNIT I	LANGUAGE AND LITERATURE	3

Language Families in India - Dravidian Languages – Tamil as a Classical Language - Classical Literature in Tamil - Secular Nature of Sangam Literature - Distributive Justice in Sangam Literature - Management Principles in Thirukural - Tamil Epics and Impact of Buddhism & Jainism in Tamil Land - Bakthi Literature Azhwars and Nayanmars - Forms of minor Poetry - Development of Modern literature in Tamil - Contribution of Bharathiyar and Bharathidhasan.

UNIT II	HERITAGE - ROCK ART PAINTINGS TO MODERN ART - SCULPTURE	3

Hero stone to modern sculpture - Bronze icons - Tribes and their handicrafts - Art of temple car making - Massive Terracotta sculptures, Village deities, Thiruvalluvar Statue at Kanyakumari, Making of musical instruments - Mridhangam, Parai, Veenai, Yazh and Nadhaswaram - Role of Temples in Social and Economic Life of Tamils.

UNIT III	FOLK AND MARTIAL ARTS	3

Therukoothu, Karagattam, Villu Pattu, Kaniyan Koothu, Oyillattam, Leatherpuppetry, Silambattam, Valari, Tiger dance - Sports and Games of Tamils.

UNIT IV	THINAI CONCEPT OF TAMILS	3

Flora and Fauna of Tamils & Aham and Puram Concept from Tholkappiyam and Sangam Literature - Aram Concept of Tamils - Education and Literacy during Sangam Age - Ancient Cities and Ports of Sangam Age - Export and Import during Sangam Age - Overseas Conquest of Cholas.

UNIT V	CONTRIBUTION OF TAMILS TO INDIAN NATIONAL MOVEMENT AND INDIAN CULTURE	3

Contribution of Tamils to Indian Freedom Struggle - The Cultural Influence of Tamils over the other parts of India – Self-Respect Movement - Role of Siddha Medicine in Indigenous Systems of Medicine – Inscriptions & Manuscripts – Print History of Tamil Books.

TOTAL: 15 PERIODS

OUTCOMES:	
After successful completion of the course, the students will be able to:	
CO1	Understand the human values and rights in Tamil literature.
CO2	Learn the art and culture being practiced by people of Tamilnadu.
CO3	Understand various games and dance practiced by people of Tamil Nadu
CO4	Learn the concepts of Sangam Literature and the bravery of Kings
CO5	Learn life history of freedom fighters Vedic herbs and developments in life style

TEXT-CUM-REFERENCE BOOKS:

1. தமிழக வரலாறு – மக்களும் பண்பாடும் – கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).
2. கணினித் தமிழ் – முனைவர் இல. சுந்தரம். (விகடன் பிரசுரம்).
3. கீழடி – வைகை நதிக்கரையில் சங்ககால நகர நாகரிகம் (தொல்லியல் துறை வெளியீடு)
4. பொருநை – ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)

1 Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL – (in print)

2 Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies.

3 Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies).

4 The Contributions of the Tamils to Indian Culture (Dr.M.Valarmathi) (Published by: International Institute of Tamil Studies.)

5 Keeladi - 'Sangam City C ivilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)

6 Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Publishedby: The Author)

7 Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Bookand Educational Services Corporation, Tamil Nadu)

8 Journey of Civilization Indus to Vaigai (R.Balakrishnan) (Published by: RMRL) – Reference Book.

AUD110	TAMILS AND TECHNOLOGY	L	T	P	C
		1	0	0	0

OBJECTIVES:

This course enables the students to

- Understand the art of making things and developments in the lifestyle of people
- Understand the various methods of constructing buildings.
- Understand the techniques being used in Architecture by Tamils
- Understand and apply the concepts of Tamil with modern technology

UNIT I	WEAVING AND CERAMIC TECHNOLOGY	3

Weaving Industry during Sangam Age – Ceramic technology – Black and Red Ware Potteries (BRW)- Graffiti on Potteries.

UNIT II	DESIGN AND CONSTRUCTION TECHNOLOGY	3

Designing and Structural construction House & Designs in household materials during Sangam Age - Building materials and Hero stones of Sangam age – Details of Stage Constructions in Silappathikaram - Sculptures and Temples of Mamallapuram - Great Temples of Cholas and other worship places- Temples of Nayaka Period - Type study (Madurai Meenakshi Temple)- Thirumalai Nayakar Mahal - Chetti Nadu Houses, Indo - Saracenic architecture at Madras during British Period.

UNIT III	MANUFACTURING TECHNOLOGY	3

Art of Ship Building - Metallurgical studies - Iron industry - Iron smelting,steel -Copper and gold- Coins as source of history - Minting of Coins – Beads making- industries Stone beads -Glass beads - Terracotta beads -Shell beads/ bone beats - Archeological evidences - Gem stone types described in Silappathikaram.

UNIT IV	AGRICULTURE AND IRRIGATION TECHNOLOGY	3

Dam, Tank, ponds, Sluice, Significance of Kumizhi Thoompu of Chola Period, Animal Husbandry - Wells designed for cattle use - Agriculture and Agro Processing - Knowledge of Sea - Fisheries – Pearl - Conche diving - Ancient Knowledge of Ocean - Knowledge Specific Society.

UNIT V	SCIENTIFIC TAMIL & TAMIL COMPUTING	3

Development of Scientific Tamil - Tamil computing – Digitalization of Tamil Books – Development of Tamil Software – Tamil Virtual Academy – Tamil Digital Library – Online Tamil Dictionaries – Sorkuvai Project.

TOTAL: 15 PERIODS

	OUTCOMES:
	After successful completion of the course, the students will be able to:
CO1	Know the gradual improvement in the life history of Tamils.
CO2	Construct buildings with the impact of past with the present..
CO3	Learn to manufacture remarkable things with the help of technology
CO4	Apply the ancient skills to find out the measurements of oceans
CO5	Apply the concepts of Tamil with modern technology

TEXT-CUM-REFERENCE BOOKS:

1. தமிழக வரலாறு – மக்களும் பண்பாடும் – கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).
2. கணினித் தமிழ் – முனைவர் இல. சுந்தரம். (விகடன் பிரசுரம்).
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