COMPUTER SCIENCE & ENGINEERING RESEARCH CENTRE

Name of the College: K.V.G. College of Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
"Jnana Sangama"
Belagavi – 590018, Karnataka State.

Name of the Recognized Research centre	**Computer Science & Engineering**
Year of Est. as Research Centre	**2013-14**
Number of Eligible Supervisors	**06**
Number of Candidates Registered for Ph.D.	**07**
Number of Candidates Registered for M.Sc. (Engg.) by Research	**--**
Number of faculty with Ph.D.	**06**
Number of Professors in the department	**06**
Number of Assoc. Prof. in the department	**05**
Number of Asst. Prof. in the department	**15**

Details of Research Supervisors

Sl. No.	Name of the Research Supervisor	Name of the University from which Ph. D is awarded	Year of Award	Specialization	Department	No. of Candidates Registered for		Status of Completion		
						Ph.D.	M.Sc. (Engg.)	No. of Candidates completed Course Work	No. of Candidates completed Comprehensive Viva-Voce	No. of Candidates completed Submitted Final Thesis
1	Dr. Ujwal U J	VTU, Belagavi	2020	Data Mining, Web Mining and Knowledge Engineering	CS&E	--	--	--	--	--
2	Dr. Smitha M L	Mangaluru University	2016	Image/Video Processing, Pattern Recognition and Machine Learning	CS&E	02	--	--	--	--
3	Dr. Jothimani K	Bharathiar University Coimbatore	2014	Data Mining, Web Mining and Knowledge Engineering	CS&E	03	--	01	01	--
4	Dr. Savitha C K	VTU, Belagavi	2021	Artificial Intelligence and Machine Learning, Image Processing, Pattern Recognition	CS&E	--	--	--	--	--
5	Dr. Prajna M R	VTU, Belagavi	2021	Artificial Intelligence and Machine Learning, Data Science	CS&E	--	--	--	--	--
6	Dr. Antony P J	Amrita Vishwa Vidya Peetham University, Coimbatore	2013	Computer Science & Engineering	CS&E	06	--	05	05	04

Details of Research Scholars

Sl. No.	Name of the Research Scholar	Dept.	Registered for			Status of Completion of		
			Year of Registration	Ph.D.	M.Sc. (Engg.) by Research	Course work [Y/N]	Comprehensive Viva-Voce [Y/No]	Submitted Final Thesis [Y/N]
1.	Mr. Balapradeep K N	CS&E	2016	Yes	-	Y	Y	N
2.	Mr. Krishnamohan A J		2019	Yes	-	N	N	N
3.	Mr. Sunith Kumar T		2019	Yes	-	N	N	N
4.	Mr. Saleem Mallik		2019	Yes	-	Y	Y	N
5.	Mr. Rino Cherian		2018	Yes	-	N	N	N
6.	Ms. Harshitha K		2021	Yes	-	N	N	N
7.	Mrs. Sumalatha D P		2022	Yes	-	N	N	N

Publication Details

Sl. No.	Name of the Research Supervisor/ Research Scholar	Title of Paper	Publication Citation	National	International
1.		"Energy- Efficient Resource Allocation and Migration in Private Cloud Data Centre"	Willey Hindawi: Wireless Communication and Mobile Computing, vol 2022, with article ID: 3174716, 2022		
2.		"Semantic Segmentation for Areca nut Classification using Support Vector Machine"	International Journal of Innovative Research in Computer and Communication Engineering, with e-ISSN:2320-9801, p-ISSN:2320-9798, www.ijrcce.com, Impact Factor:7.542, Vol:10, issue:2, Feb-2022, DOI:10.15680/IJIRCCE.2022.1002039	-	International
3.		"Predictive Analysis of Sports Data using Google Prediction"	International journal API, IJAER Vol.13, ISSN: 0973-4562, Issue: 2018 pp.28142816	-	International
4.		"Ecommerce User Data Analysis and Product Recommendation Using Predictionlo"	IARISET, Volume 3, Issue 9, September 2016	-	International
5.	Dr. Ujwal U J	Economics – Data Analysis product reconsideration wxy prediction	International Journal IA RISET Issue 9 Sept. 2016 Impact factor: 3.93 IARJSET, Volume 3, Issue 9, September 2016.	-	International
6.		Implementation of Reconsideration system in a web brouser with help of cloud may.	Springer CRCKA-26 ON 31-07-2016 AT NMIT, Bengaluru. (Conference)	National	-
7.		"An efficient Discovery of Comparable Entities from the Perspective of Comparative Question using Data Mining"	International Journal of Engineering Research and Technology, Apr-May 2014.	-	International
8.		"Efficient Mobility Tolerant Bandwidth Satisfied Multicast Trees in MANETS"	International Conference on 'Emerging Trends in Engineering' (ICETE 2011) at NMAMIT, Nitte during May 4th and 5th, 2011.	-	International
9.		"Multiple Sclerosis Lesion Classification on MRI using ANN"	Paper published in International journal on Computer Engineering & Information Technology (IJCEIT) Vol.1, No.1, Nov. 2008-Jan.2009.	-	International

10.		"Single Scan Partition Algorithm with Ladder Merging for Web Mining"	International journal on Computer Engineering & Information Technology (IJCEIT) Volume 01, No.1, Nov. 2008-Jan.2009.	-	International
11.		A Multidisciplinary Peer Received And Fully Refereed	International journal on Computer Engineering & Information Technology (IJCEIT) Volume 01, No.1 0974-2034, Nov 2008-Jan 2009	-	International
12.		"Cell Nuclear Segmentation –A Diagnostic Tool in Detection of Bone Cancer using Microscopic Image Analysis"	Borneo Journal of Medical Sciences Volume 04 June 2011.	National	-
13.		"American Sign Language Gesture Recognition using Edge Histogram Descriptors and ANN."	National Conference on Recent Trends in Computational Sciences and Engineering on 12th February, 2011 at KVGCE, Sullia.	National	-
14.	Dr. Ujwal U J	National Conference on Recent Trends in Computational Sciences and Engineering	12th February, 2011 at KVGCE, Sullia.	National	-
15.		"Efficient Mobility Tolerant Bandwidth Satisfied Multicast Trees in Manets."	National Conference on Recent Trends in Computational Sciences and Engineering on 12th February, 2011 at KVGCE, Sullia.	National	-
16.		Single Scan Partition Algorithm With Ladder Merging For Web Mining,	National Conference on Research Challenges in Computation and Information Technology, Sona College of Technology, Salem.	National	-
17.		"A revive on Brain Disorder segmentation in MR images"	International Journal on Modern engineering research (IJMER) July –August 2013.	-	International
18.		"The impact of social networking and its analysis"	International Journal on Modern engineering research (IJMER) July –August 2013.	-	International
19.		"Automated classification of multiple sclerosis lesion using wavelet and texture based NN tool"	National conference on advanced IT, Engineering and Management (SACAIM-2013) by IT department of AIMIT – CSIAIMIT branch on Sept. 5th and 6th 2013.	National	-

1.		"Semantic Segmentation for Areca nut Classification using Support Vector Machine"	International Journal of Innovative Research in Computer and Communication Engineering, with e-ISSN:2320-9801, p-ISSN:2320-9798, www.ijrcce.com, Impact Factor:7.542, Vol:10, issue:2, Feb-2022, DOI:10.15680/IJIRCCE.2022.1002039	-	International
2.		"Video Text Localization using Multiscale Weber's Local Descripter"	IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES), IEEE Conference Publications, held at National Institute of Technology Calicut (NITC) on 19th to 21st February, 2015.	-	International
3.		"Video Text Localization using Multiscale Weber's Local Descripter"	In IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES), IEEE Conference Publications, held at National Institute of Technology Calicut (NITC) on 19th to 21st February, 2015.	-	International
4.	Dr. Smitha M L	"Chernoff Segmented Window with Automatic Tuner for Mining Frequent Itemsets"	2nd International Conference on Computing, Measurement, Control, and Sensor Network (CMCSN-II) in Tunghai University, Taichung, Taiwan from 16th to 18th May, 2014 proceedings published by Springer-Advances in Intelligent Systems and Computing	-	International
5.		"Skeleton Matching based approach for Text Localization in Scene Images"	In Eighth International Conference on Image and Signal Processing, Elsevier Publications held at UVCE, Bangalore on July 2014.	-	International
6.		"Video Text Localization with an emphasis on Edge Features"	In Eighth International Conference on Image and Signal Processing, Elsevier Publications held at UVCE, Bangalore on July 2014.	-	International
7.		"Gradient Difference based approach for Text Localization in Compressed domain"	In Second International Conference on Emerging Research in Computing Information Communications and Applications, Elsevier Publications held at NMIT, Bangalore on August 2014.	-	International
8.		"Morphological Gradient Based approach Text Localization in Video/ Scene images."	In Third International Conference on Advances in Computing, Communications and Informatics, IEEE Conference Publications held at Galgotia College of Engineering & Technololgy, Greater Noida on Sept. 2014.	-	International

9.	Dr. Smitha M L	"Single Scan Partition Algorithm with Ladder Merging for Web Mining"	International journal on Computer Engineering & Information Technology (IJCEIT) Volume 01, No.1, Nov. 2008-Jan.2009.	-	International
10.		"Discrete wavelet transform and gradient based approach for text localization in videos"	5th International conference on Signal and Image Processing (ICSIP) at BNM Institute of Technology, Bangalore on 8-10 Jan. 2014.	-	International
1.	Dr. Jothimani K	A Review on Object Tracking Across Real-World Multi Camera Environment	International Journal of Computer Applications, 174(12):32-37 January 31, 2020	-	International
2.		Pixel Level Reversible Data Hiding Using Two Level Encryptions Review	International Journal of Engineering Applied Sciences and Technology (IJEAST), 2019. Vol. 4, Issue 5, ISSN No. 2455-2143, pages 498-503	-	International
3.		A Comparative Analysis to Measure Scholastic Success of Students using Data Science Methods	International Conference on Emerging Research in Computing Information, Communication and Applications ERCICA 2022, held at NMAM Institute of Technology, Nitte, Bangalore, Karnataka during 24th -2 5th February, 2022	-	International
4.		Using Data Science Techniques and Approaches, A Systematic Study to Quantify Student Scholastic Progress	International Conference on Emerging Research in Science and Technology (ETIST 2021), held at NGM College, Pollachi, Tamilnadu during 27th October, 2021	-	International
5.		Pixel level Reversible Data hiding using two level Encryptions review	International Journal (JJEAJJ) September 2019. Impact factor: 0.8	-	International
6.		Ling Chen, Qingling Mei, "Mining frequent items in data stream using time fading model"	Information Sciences, 2014 – Elsevier, Volume 257, 1 February 2014, Pages 54–69	National	-
7.		D.Sujatha, B.L.Deekshatulu, "CCA-VW-FIM: Concept change aware variable window based frequent itemsets mining over data streams"	International Journal of Scientific & Engineering Research, Volume 5, Issue 6, June-2014, pp 1134-1137	National	-
8.		Himanshu M. Shah, Navneet Kaur, "Improve Frequent Pattern Mining in Data Stream"	IMPACT: International Journal of Research in Engineering & Technology (IMPACT: IJRET), ISSN(E): 2321-8843; ISSN(P): 2347-4599, Vol. 2, Issue 5, May 2014, 143-152	National	-

9.		"Efficient Cryptography Technique on Perturbed Data in Distributed Environment"	Springer, Advances in Computing and Information Technology, Advances in Intelligent Systems and Computing Volume 176, 2012, pp 239-244	National	-
10.		Nishant Doshi, "A novel approach for cryptography technique on Perturbed data for Distributed Environment"	International Journal on Cryptography and Information Security (IJCIS),Vol.2, No.3, Sept. 2012, DOI:10.5121/ijcis.2012.2309 101	-	International
11.		"Chernoff Segmented Window with Automatic Tuner for Mining Frequent Itemsets"	The 2nd International Conference on Computing, Measurement, Control, and Sensor Network (CMCSN II) in Tunghai University, Taichung, Taiwan held on May 16-18, 2014 proceedings published by Springer-Advances in Intelligent Systems and Computing (AISC, http:// www.springer.com / series/ 11156) ISSN: 2194-5357.	-	International
12.	Dr. Jothimani K	"VALWIN: A New Approach for Mining Frequent Itemsets over Data Streams"	International Journal on Advanced Information and Communication Technology (IJADICT), Vol. 7 No. 1,ISSN: 0974-7605, January, 2011, pp. 29-35. (With Dr. Antony Selvadoss Thanamani).	-	International
13.		"ESWCA: An Efficient Algorithm for Mining Frequent Itemsets"	CiiT International Journal of Data Mining Knowledge Engineering, ISSN: 0974 – 9578, DOI: DMKE032011016, March, 2011. (With Dr. Antony Selvadoss Thanamani).	-	International
14.		"A Generic Approach for Mining Frequent Itemsets Over Data Streams"	International Journal on Applied Information and Communication Technology (IJAICT), Vol. 6 No. 2, ISSN: 0974-7591, April, 2011, pp. 35-39 (With Dr. Antony Selvadoss Thanamani).	-	International
15.		"Determining the Factors for Mining Frequent Itemsets - An Improved Approach"	International Journal on Advanced Information and Communication Technology (IJADICT), Vol. 7 No. 3, ISSN: 0974-7605, July 2011, pp. 120-125 (With Dr. Antony Selvadoss Thanamani).	-	International
16.		"Mining Frequent Itemsets Over Data Streams - Combinatorial Approach"	International Journal on Applied Information and Communication Technology (IJAICT), Vol. 6, No. 4, ISSN: 0974-7591, October 2011, pp. 145-149. (With Dr. Antony Selvadoss Thanamani).	-	International
17.		"A Composite Analysis of Boundaries using Mathematical Models over Data Streams"	International Journal on Advanced Information and Communication Technology (IJADICT), Vol. 8, No. 1, ISSN: 0974-7605, January 2012, pp. 7-12. (With Dr. Antony Selvadoss Thanamani).	-	International

18.		"MS: Multiple Segments with Combinatorial Approach for Mining Frequent Itemsets Over Data Streams"	International Journal of Computer Engineering Science (IJCES), Vol. 2 Issue 2, ISSN: 2250:3439, March, 2012. (With Dr. Antony Selvadoss Thanamani).	-	International
19.		"An Algorithm for Mining Frequent Itemsets"	International Journal of Computer Science Engineering and Technology (IJCSET), ISSN: 2231-0711, Vol. 2, Issue 3, March, 2012, pp. 1012-1015. (With Dr. Antony Selvadoss Thanamani).	-	International
20.		"Performance Analysis on Mining Frequent Itemsets - Variance Segment Approach"	International Journal of Emerging trends in Engineering and Development (IJETED), ISSN: 2249-6149, Vol. 2, Issue 2, March, 2012. (With Dr. Antony Selvadoss Thanamani).	-	International
21.		"An Improved Chernoff Bounded Sliding Window Algorithm for Frequent Itemset Extraction"	International Journal on Advanced Information and Communication Technology (IJADICT), Vol. 7, No. 2, April, 2012, ISSN: 0974-7591, pp. 43-48. (With Dr. Antony Selvadoss Thanamani).	-	International
22.	Dr. Jothimani K	"Mining Frequent Itemsets from Large Windows Over Data Streams"	International Journal of Science and Innovative Engineering & Technology, May, 2012. (With Dr. Antony Selvadoss Thanamani).	-	International
23.		"An Efficient Approach for Mining Frequent Itemsets with Large Windows"	International Journal Of Computational Engineering Research (IJCER), ISSN: 2250–3005, Vol. 2 Issue No.3, May-June, 2012, pp. 923-926. (With Dr. Antony Selvadoss Thanamani).	-	International
24.		"An Overview of Mining Frequent Itemsets Over Data Streams Using Sliding Window Model"	International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), ISSN: 2278-6856, Vol. 1, Issue 1, May-June, 2012. (With Dr. Antony Selvadoss Thanamani).	-	International
25.		"An Improved Segmented Windows for Mining Frequent Itemsets"	International Journal of Engineering & Science Research (IJESR), ISSN: 2277-2685, Vol.2 Issue-7, July, 2012, pp. 582-590. (With Dr. Antony Selvadoss Thanamani).	-	International
26.		"ESW-FI: An Improved Analysis of Frequent Itemsets Mining"	International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), ISSN: 2278-1323, Vol. 1, Issue 5, July 2012, pp. 386-390. (With Dr. Antony Selvadoss Thanamani).	-	International

27.		"CB Based Approach for Mining Frequent Itemsets"	International Journal of Modern Engineering Research (IJMER), ISSN: 2249-6645, Vol.2, Issue.4, July-August, 2012, pp. 2508-2511. (With Dr. Antony Selvadoss Thanamani).	-	International
28.		"Mining Frequent Itemsets Based On CBSW Method"	International Journal of Engineering Research and Development (IJERD), e-ISSN: 2278-067X, p-ISSN: 2278-800X, Vol. 2, Issue 7, August 2012, pp. 80-84. (With Dr. Antony Selvadoss Thanamani).	-	International
29.		"Frequent Itemset Extraction Over Data Streams Using Chernoff Bound"	Proc. of Int. Conf. on Front. of Intell. Comput., DOI: 10.1007/978-3-642-35314-7_31, AISC 199, Springer-Verlag Berlin Heidelberg, January 2013, pp. 265–272. (with Dr. Antony Selvadoss Thanamani).	-	International
30.		"An Integral Approach for Mining Frequent Itemsets on DataStream using Efficient Sliding Window Algorithm"	International Conference On Computer Communication and Informatics (ICCCI), held at Sri Shakthi Institute of Engineering and Technology, Coimbatore during January 11th and 12th, 2011, ISBN 978-1-4577-1583-9/11	-	International
31.	Dr. Jothimani K	"Performance Analysis on Mining Frequent Itemsets over Data Streams based on Sliding Window model"	National Conference on Recent Trends and Computational Engineering (NCRTCSE), held at KVG College of Engineering, Sullia on 12th February, 2011	National	-
32.		"Efficient Improvement and Analysis of Frequent Itemset Mining"	National Seminar on Cyber Criminology (NSCC), held at BPC College, Cochin during 3rd - 4th, March 2011, ISBN 978-81-909720-4-8, pp 43-48.	National	-
33.		"Comparative Study on Efficient Sliding Window Algorithm for Mining Frequent Itemsets"	National Seminar On Emerging Trends in IT and Management held at SIT, Mangalore on 13th April, 2011.	National	-
34.		"Maintaining Variance Segments for Mining Frequent Itemsets over Data Streams"	International Conference On Emerging Trends in Engineering (ICETE), held at NMAM Institute of Technology, Nitte, Karnataka during 4th - 5th May, 2011, ISBN 978-93-81195-07-9	-	International
35.		"An Optimized Solution For Mining Frequent Itemsets"	National Conference Computational and Mathematical model CCSO held at Ambedkar Institute of Technology, Bangalore during 12th - 13th May, 2011.	National	-
36.		"Determining the Factors for Mining Frequent Itemsets in Data Streams"	NCCICT (National Conference on Challenges and Issues in Computing & Technology) held at VEL TECH Dr. RR & SR Technical University, Avadi, Chennai during 12th - 13th August, 2011, pp. 127-130, ISBN 978-93-80624-43-3	National	-

37.	Dr. Jothimani K	"Comparative Study On Efficient Sliding Window Algorithm for Mining Frequent Itemsets"	International Conference on Recent Trends in Information Technology and Computer Science (ICRTITCS) – held at Thakur College of Science and Commerce, Mumbai during 9th - 10th December, 2011, ISBN 978-81-922978-1-1	-	International
38.		"Mining Frequent Itemsets over Data Streams—Variance Segment Approach"	International Conference on Advanced Computing, Networking and Security (ADCONS), held at NITK, Surathkal, Karnataka during 16th - 18th December, 2011.	-	International
39.		"An Optimized Solution for Mining Frequent Itemsets Over Data Streams"	International Conference on Innovations in Computers, Information and Communications (ICICIC) held at PSG College of Technology, Coimbatore during 6th - 7th January, 2012.	National	-
40.		"An Enhanced Approach for Mining Frequent Itemsets"	National Conference on Advances in Computer Applications (NCACA), held at Bharathiar University on 28th March, 2012, ISBN 978-93-80769-18-9.	-	International
41.		"Mining Frequent Itemsets from Large Windows over Data Streams"	International Conference on Science and Innovative Engineering, (ICSIE) held at Lord Venkateswara Engineering College, Chennai during 31st March, 2012, ISBN: 978-81-904760-4-1	-	International
42.		"Frequent Itemset Extraction Over Data Streams Using Chernoff Bound"	FICTA International Conference on Frontiers of Intelligence in Computers, held at Bhuvaneshwar Engineering College, Orissa during 22nd - 23rd December, 2012, ISBN: 978-3-642-35313-0	National	-
43.		"EDS-FI: Efficient Data Structure for Mining Frequent Itemsets"	under Information and Communication Technology including Computer Science (ICT) from ISCA (Indian Science Congress Association), Kolkatta during 3rd - 7th January, 2013.	-	International
44.		"An Improved Efficient Data Structure for Mining Frequent Itemsets"	IEEE International Conference on Innovations in Communication, Information and Computing (ICICIC'13), held at Sasurie College of Engineering, Vijayamangalam, Tiruppur during 9th-11th, January 2013, ISBN 978-81-925286-8-7	-	International
45.		"Improval Frequent Itemsets in datastream mining for bronchitis patient"	International Journal of Scientific and Engineering Research Vol.6-2014-15.		

1.		Prediction of Core Strength in computer using DL& SVR	International Journal 2019 July (IJRTE)	-	International
2		Machine Learning Approaches for Smart Materials	International Journal 2018 Dec. 10P	-	International
3		"Machine Learning Approaches for Flexual Characterization of Smart Material"	National Conference NCCI-2018 at Kristu Jayanthi College, Bengaluru 06-12-2018. The work was published in Journal of Physics: Conference Series, Volume 1142, Issue 1 in December 2018.	National	-
4		"Synthesis and Characterization of Alumina Filler Reinforced Polyurethane Foams for Light Weight Application"	American Journal of Material Science 2016, 6(4A): 67-71 DOl: 10.5923/c. materials. 201601.13 (Co-Author	-	International
5		"Synthesis and Experimental Investigation of Density on the Structural Properties of Rigid Polyurethane foams"	American Journal of Material Science 2016, 6(4A): 77-81 DOl:10.5923/c. materials. 201601.15 (Co-Author)	-	International
6	Dr. Prajna M R	"Synthesis and Characterisation of Almina Filler Reinforced Polyurethane Foams for Lightweight application"	Conference "E-time -16" at St. Joseph College of Engineering, Mangaluru held on 2nd August 2016. Composite with LDPF filler Material "PG Fest – Vision 2016 at KVG College of Engg., Sullia on 22nd April 2016.	National	-
7		"Hybrid HMM/ANN models for improving offline handwriting Test Rec"	Journal at Dec. 2016, Publisher: 5TM	-	International
8		"Data security using cloud computing Adaption framework"	Journal at Dec. 2016 Publisher: 5TM	-	International
9.		"Adaptation Framework"	National conference on July 2017	National	-
10		"Design and Implementation of Research Proposal solution"	International Conference on Convergent Innovative Technologies (ICCIT -2015), Bengaluru.	-	International
11		"A Secure payment scheme in Multihop Wireless Network by Trusted Node Identification Method"	International Journal of Computer Science Engineering Research and Development in April-June 2014.	-	International
12.		"The impact of social networking and its analysis"	International Journal on Modern engineering research (IJMER) July –August 2013.	-	International

13.	Dr. Prajna M R	"Automated classification of multiple sclerosis lesion using wavelet and texture based NN tool"	National conference on advanced IT, Engineering and Management (SACAIM-2013) by IT department of AIMIT – CSIAIMIT branch on Sept. 5th and 6th 2013.	National	-
1.	Mr. Balapradeep K N	Impact of an Artificial Intelligence in Natural Language Interface to Database	Indian Journal of Natural Sciences Vol.13 / Issue 71 / April / 2022 International Bimonthly (Print) ISSN: 0976 – 0997	-	International
		"Simplified Model of Natural Language Interface for Quarying Database"	International Journal on April 2018	-	International
2.		"Ranking of Image Search by Check based Uniformity and Typicality"	National Journal on Image Processing Pattern Recognition Progress. Volume 3, Issue 3 2017	National	-
3.		Natural Language compliler for english and dravidian languages.	International Conference ERCICA– 2015, on 31-07-2015 to 01-08-2016 at NMIT, Bengaluru. (Author)	-	International
4.		"Secure data retrieval for decentralized disruption tolerant in wireless sensor networks"	International journal 2015	-	International
5.		"'Im@' – A Technique for Sharing a Location"	International journal 2015	-	International
6.		"Content-Based Image Retrieval Using Multiple Representations"	International Conference on Emerging Trends in Engineering (ICETE'12) NMAMIT, Nitte on 15th and 16th May 2012.	-	International
7		"Virtue Mob. Remote Display Visualization Solution for Smart Phones"	International Journal IJCTT Vol. 4 2014.	-	International
1.	Dr. Savitha C K	"Semantic Segmentation for Areca nut Classification using Support Vector Machine"	International Journal of Innovative Research in Computer and Communication Engineering, with e-ISSN:2320-9801, p-ISSN:2320-9798, www.ijrcce.com, Impact Factor:7.542, Vol:10, issue:2, Feb-2022, DOI:10.15680/IJIRCCE.2022.1002039	-	International
2.		Segmentation & Recognition of handwritten Tulu Character	August 2019 Impact factor: 0.5 Publisher: Indoxience		

3.		"Machine Learning Approaches for Recognition of Offline Tulu Handwritten Scripts"	National Conference NCCI-2018 at Kristu Jayanthi College, Bengaluru on 06-11-2018. The work was published in Journal of Physics: Conference Series, Volume 1142, Issue 1 in December 2018.		
4.		Secure hadoop environment,	International Journal IRJET, June 2018.		
5.		A super isolating competition for individual CT picture enhancement,	International Journal IRJET, May 2018.		
6.		"Adaptation Framework"	International Journal IRJET, May 2018.		
7.		"Hybrid HMM/ANN models for improving offline handwriting Test Rec"	International Journal at Dec. 2016 Publisher: 5TM	-	International
8.	Dr. Savitha C K	"Data security using cloud computing Adaption framework"	International Journal at Dec. 2016 Publisher: 5TM	-	International
9.		"Adaptation Framework"	National conference on July 2017	National	-
10.		"FPGA: Implementation of Association Rules in Web Usage Mining"	International Journal of Engineering Research and Technology, Apr-May 2014. IJMER, Vol.5	-	International
11.		"A Simple handwritten Character Recognition System for Malayalam"	In IFERT, on 23-08-2015 August 2015 at Alappuzha. (Author)	-	International
12.		"Automatic Character recognition System for Kannada Characters"	International journal of Engineering Research publication 2nd International Conference on convergent innovative technologies on 19th - 20th May 2015.	-	International
13.		Analysis of Personal Queries in Mobile Scares Engine	International Journal of Science, Engineering and Technical Research in May 2014, Vol.3	-	International
14.		"A revive on Brain Disorder segmentation in MR images"	International Journal on Modern engineering research (IJMER) July –August 2013.	-	International

15.	Dr. Savitha C K	"The impact of social networking and its analysis"	International Journal on Modern engineering research (IJMER) July –August 2013.	-	International
16.		"Multiple Sclerosis Lesion Classification on MRI using ANN"	Paper published in International journal on Computer Engineering & Information Technology (IJCEIT) Vol.1, No.1, Nov. 2008-Jan.2009.	-	International
17.		"Multiple Sclerosis Lesion Classification on MRI Using ANN"	National Conference on Research Challenges in Computation and Information Technology, Sona College of Technology, Salem, 2009	National	-
18.		"Automated classification of multiple sclerosis lesion using wavelet and texture based NN tool"	National conference on advanced IT, Engineering and Management (SACAIM-2013) by IT department of AIMIT – CSIAIMIT branch on Sept. 5th and 6th 2013.	National	-
1.	Dr. Antony P J	"Natural Language Processing for Indian Languages: A Literature Survey"	Publisher: LAP LAMBERT Academic Publishing, ISBN-13: 978-3659215278.	-	International
2.		"A Paradigm Based Morphological Analyzer for Kannada Language Using Machine Learning Approach"	International journal on Advances in Computer Science and Technology (ACST), ISSN 0973-6107, Vol 3, No. 4, pp. 457–481, October 2010.	-	International
3.		"Penn Treebank-Based Syntactic Parsers for South Dravidian Languages using a Machine Learning Approach"	International journal on Computer Application (Impact Factor: 0.835), ISBN: 978-93-80746-92-0, Volume 7, No.8, October 2010.	-	International
4.		"A Rule based Kannada Morphological Analyzer and Generator using Finite State Transducer"	International journal on Computer Application (Impact Factor: 0.835), Volume 27, No.10, August 2011.	-	International

5.		"A Novel Approach for English to South Dravidian Language Statistical Machine Translation System"	International Journal on Computer Science and Engineering (IJCSE), Vol. 02, No. 08, 2749-2759, 2010.	-	International
6.		"Smart Life Tracking and Rescuing Disaster Management System"	International journal on Computer Application (Impact Factor: 0.835), Volume 45– No.23, May 2012.	-	International
7.		"Parts of Speech Tagging for Indian Languages: A Literature Survey"	International journal on Computer Application (Impact Factor: 0.835), Volume 34, No.8, November 2011.	-	International
8.		"Machine Transliteration for Indian Languages: A Literature Survey"	International Journal of Scientific and Engineering Research (IJSER), Volume 2, Issue 12, ISSN 2229-5518, December 2011.	-	International
9	Dr. Antony P J	Antony P J and Soman K P: "Computational Morphology and Natural Language Parsing for Indian languages: A Literature Survey"	International Journal of Computer Science & Engineering Technology (IJCSET), ISSN : 2229-3345, Vol. 3 No. 4, April 2012.	-	International
10.		"Automated Segmentation using Histopathology Images as a Diagnostic Confirmatory Tool in Detection of Bone Cancer"	International journal on Computer Application (Impact Factor: 0.835), Volume 57, No.11, November 2012.		
11.		"Machine Translation Approaches and Survey for Indian Languages"	International Journal of Computational Linguistics and Chinese Language Processing (IJCLCLP), The Association for Computational Linguistics and Chinese Language Processing, Vol. 18, No. 1, March 2013, pp. 47-78.	-	International
12.		"A Rule Based Machine Translation System for English to Kannada Language"	Journal of Computer Science (Impact Factor: 1.35), Published by Science Publication, Indexed in SCOPUS.	-	International

13.		"Kernel Method for English to Kannada Transliteration"	International Conference on-Recent Trends in Information, Telecommunication and Computing, Kochin, India, Archived in IEEE Xplore and IEEE CS Digital Library, Abstracted in ACM Digital Library, 12-13 March 2010.	-	International
14.		"Kernel Based Part of Speech Tagger for Kannada"	International Conference on Machine Learning and Cybernetics, Qingdao, China, Archived in IEEE Xplore and IEEE CS Digital Library, 11-14 July 2010.	-	International
15.		"Feature Extraction Based English to Kannada Transliteration"	Third International Conference on Semantic E-business and Enterprise Computing, Cochin, India, 15 – 17 September 2010.	-	International
16.	Dr. Antony P J	"Statistical Method for English to Kannada Transliteration"	International Conference on Recent Trends in Business Administration and Information Processing", Trivandrum, India, Published in Springer LNCS-CCIS, Volume 70, 356-362, 26-27 March 2010.	-	International
17		"SVM Based Parts Speech Tagger for Malayalam"	International Conference on Recent Trends in Information, Telecommunication and Computing, Kochin, India, Archived in IEEE Xplore and IEEE CS Digital Library, Abstracted in ACM Digital Library, 12-13 March 2010.	-	International
18		"Morphological analyzer and generator for Tulu language: a novel approach"	ACM - International Conference on Advances in Computing, Communications and Informatics - ICACCI '12, Chennai, India, Published in ACM Digital Library and Conference Proceeding, 03-05 August 2012.	-	International

19		"Secret and Secure Data Transmission Using Four-Level Data Security"	ELSEVIER - International Conference on Emerging Research in Computing, Information, Communications and Applications-ERCICA 13, ISBN: 9789351071020.	-	International
20	Dr. Antony P J	"A Proof of Concept for Offline Laptop Tracking"	First International Conference on Machine Intelligence and Research Advancement, ICMIRA 2013", Katra, India, Archived in IEEE Xplore and IEEE CS Digital Library.	-	International

Details of Existing Research Facilities

Sl. No.	Facility available	Details of Funds Spent
1	1)Electronic circuits & logic design Laboratory(10csl38-iii semester) 2)Microprocessor Laboratory(10CSL48-IV Semester) 3)System software & Operating system laboratory (10CSL58-V Semester) 4) Unix System programming & compiler design laboratory(10CSL68-VI Semester) 5)Networks Laboratory (10csl77-vii Semester)	1) Windows server (SR-01) super micro tower server CPU 1x3430, 2.40 GHz/ 4x4 GB DDR 111 RAM 500 GB Hard disk/chassis tower high efficiency power supply/ 4x3.5 SATA HDD Logitech USB K0yboard and mouse (Code :SR-01) 2).INTEL CORE-2 DUO, 2 GHz ,1GB DDR-1 RAM, INTEL 945 Mother board, 250GB SATA HDD, Six port USB, 19"View sonic LCD Monitor Logitech multimedia keyboard and optical mouse (Code No:C-07,C-08,C-09,C-10,C-11,C-12,C-46) 3).INTEL CORE-2 DUO 2 GHz/2 GB DDR-2 RAM/ INTEL 945 Original/ motherboard 250GB SATA HDD/Six port USB /19" View sonic LCD Monitor Logitech multimedia keyboard, optical mouse.(Code No:C-16,C-17,C-18,C-19,C-20,C-21,C-23,C-24,C-25,C-26,C-28,C-29,C-30,C-31,C-32,C-33,C-34,C-35,C-37,C-38,C-39,C-40,C-41,C-42,C-43,C-44) 4). INTEL CORE 2 DUO 2.8 GHz, INTEL 41RQ Motherboard / 500 GB, 2 GB RAM, LCD Monitor, DVD Write, USB Keyboard & mouse (Code No:C-47 staff system) 5).HP Scan jet 5370 C with Adaptor (code No:SCN-02) 6).HP Laser jet printer 1015 (code No:P-02) 7).Accer Projector with screen (8ft x 8ft) (Code No:PJ-09) 8).Kasper sky antivirus software (50 users & 50 Workstations) 9)Switch 24 port D-Link 100/1000 Giga 10) DES -1024 D 24 port Switch (D-Link) 11)DES-1016 D 16 port Switch (D-Link) 2).ALS-PCI-07/A ADDON Cards, 24 Lines digital 13)NIFC-01 +opt-1 to 12 V power supply 14)NIFC-01 +opt-1 to 5 V to 12 V power supply 15).ALSL-NIFC-09-Keyboard /Display interface 16).ALS-NIFC-17- Elevator interface 17).ALSL-NIFC-01 Dual stepper motor interface 18).ALSL-NIFC-05 Logic controller interface 19).ALS-NIFC-06A Dual DAC interface 20).ALS -NIFC-09 Matrix Keyboard display interface 21).ALS-NIFC-17 Elevator interface 22).Seagate 500GB SATA Hard disk 23).Switch 24 port D- Link 24).Mother board 41 25).Memory 2 GB DDR-3 Transcend 26)add on card 27)keyboard 28).Logitech USB Mouse	16.71
2	Computer Programming Laboratory (15CPL16/15CPL26-I/II Semester)	1) INTEL CORE - 2 DUO 1.8GHZ/4 GB Dbr- 3 Ram/300Gb SATA HDD/ Six Port USB/ 20" LCD Monitor ACER Logitech Multimedia Keyboard Optical Mouse, ATX Cabinet with /DVD Writer 2) Switch 24 Port D-Link 100/1000 Giga 3) a.Acer Projector b) Projector Screen c) VGA Cable (10 Mtr) 4)HPLaserjet Printer 5) 5KVA online UPS 6)40 AH Battery 7) Air Conditioner (1.5 Ton)	0
3	1) Data structures with C/C++ Laboratory (10CSL37-III Semester) 2)Design and analysis of algorithm laboratory (10CSL47-IV Semester) 3)Data base Applications Laboratory	1) INTEL CORE 13 Intel DH55 Motherboard Mercury 2GB DDR-3 Seagate 500GB, SATA HDD Cabinet With SMPS Logitech MM Keyboard & Mouse (BCO) 22" SAMSUNG TFT B-2230 (Code No: I-01,I-02,I-03,I-04,I-05,I-06,I-07,I-08,I-09,I-10,I-11,I-12,I-13,I-14,I-15,I-16,I-17,I-18,I-19,I-20,I-21,I-22,I-23,I-24,I-25,I-26,I-27,I-28,I-29,I-30) 2) INTEL CORE - 2 DUO 2GHZ/1 GB DDR-2 RAM/ Intel 945 Original/ Motherboard 250 GB SATA HDD/ SIX Port USB/ 19" View Sonic LCD Monitor Logitech	14.55

4	(10CSL57-V Semester) 4) Web programming laboratory (10CSL78-VII Semester) 5)Computer graphics & visualization laboratory (10CSL67-VI Semester)	Multimedia Keyboard Optical Mouse (Code No. : C-04, C-13,C-14,C-15) 3) a) Epson Projector (CSE/ PJ-10) b) Projector Screen (PSN-01) c) VGA Cable (20 Mtr) 4)HP Laser Jet Printer 1606 Dn (P-03) 5)Seagate 500GB Ext. HDD (X-HDD-01) 6)DVD Writer (LG External) (CSL1/DVD-01) 7) SMPS (Spare) 8) Hykon make B/Z 1000/24V 1KVA Offline UPS (Code No: UPS-06) 9) a) Switch 24 Port D- Link 100/1000 Giga b) DES-1024D 24 port Switch (D-link) c) DES-1016D 16 port switch (D-link) d)PATCH PANEL 10) (DES 1024) 24 Port Switch 11)Switch 24 Port D-Link. 100/1000 Giga 12) Switch 24 Port D-Link 100/1000 Giga 13) Air conditioner (1.5 Ton) Code No: AC-02, AC-03.AC-06	
5.	1) Electronic circuits & logic design Laboratory(10csl38-iii semester) 2) Microprocessor Laboratory(10CSL48-IV Semester) 3)System software & Operating system laboratory (10CSL58-V Semester) 4) Unix System programming & compiler design laboratory(10CSL68-VI Semester) 5) Networks Laboratory (10csl77-vii Semester)	1) Windows server (SR-01) super micro tower server CPU 1x3430, 2.40 GHz/ 4x4 GB DDR 111 RAM 500 GB Hard disk/chassis tower high efficiency power supply/ 4x3.5 SATA HDD Logitech USB Keyboard and mouse (Code :SR-01) 2) INTEL CORE-2 DUO, 2 GHz ,1GB DDR-1 RAM, INTEL 945 Mother board, 250GB SATA HDD, Six port USB, 19"View sonic LCD Monitor Logitech multimedia keyboard and optical mouse (Code No:C-07,C-08,C-09,C-10,C-11,C-12,C-46) 3) INTEL CORE-2 DUO 2 GHz/2 GB DDR-2 RAM/ INTEL 945 Original/ motherboard 250GB SATA HDD/Six port USB /19'' View sonic LCD Monitor Logitech multimedia keyboard, optical mouse.(Code No:C-16,C-17,C-18,C-19,C-20,C-21,C-23,C-24,C-25,C-26,C-28,C-29,C-30,C-31,C-32,C-33,C-34,C-35,C-37,C-38,C-39,C-40,C-41,C-42,C-43,C-44) 4). INTEL CORE 2 DUO 2.8 GHz, INTEL 41RQ Motherboard / 500 GB, 2 GB RAM, LCD Monitor, DVD Write, USB Keyboard & mouse (Code No:C-47 staff system) 5) HP Scan jet 5370 C with Adaptor (code No:SCN-02) 6).HP Laser jet printer 1015 (code No:P-02) 7) Acer Projector with screen (8ft x 8ft) (Code No:PJ-09) 8).Kasper sky antivirus software (50 users & 50 Workstations) 9)Switch 24 port D-Link 100/1000 Giga 10) DES -1024 D 24 port Switch (D-Link) 11)DES-1016 D 16 port Switch (D-Link) 12) ALS-PCI-07/A ADDON Cards, 24 Lines digital 13)NIFC-01 +opt-1 to 12 V power supply 14) NIFC-01 +opt-1 to 5 V to 12 V power supply 15) ALSL-NIFC-09-Keyboard /Display interface 16) ALS-NIFC-17- Elevator interface 17) ALSL-NIFC-01 Dual stepper motor interface 18) ALSL-NIFC-05 Logic controller interface 19) ALS-NIFC-06A Dual DAC interface 20) ALS -NIFC-09 Matrix Keyboard display interface 21) ALS-NIFC-17 Elevator interface 22) Seagate 500GB SATA Hard disk 23) Switch 24 port D- Link 24) Mother board 41 25) Memory 2 GB DDR-3 Transcend 26)add on card 27) Keyboard 28) Logitech USB Mouse	16.71
6.	Computer Programming Laboratory (15CPL16/15CPL26-I/II Semester)	1) INTEL, Pentium D 2.8GHZ 512 MB RAM, 80 GB HDD, HCL Key board and CRT Monitor System Code: P-01,P-02,P-03,P-10,P-12,P-13,P-14,P-15,P-16,P-17,P-18,P-22 2) HCL Infinite P-N Intel Pentium 2.44GHZ 1GB RAM, 80 GB HDD, HCL Key board & CRT Monitor System code : p-04,p-06,p-07,p-08,p-21,p-23 3) INTEL CORE - 2 DUO 2 GHZ/1 GB DDR-2 RAM/INTEL , 945 ORIGINAL/MOTHER BOARD 250GB SATA HDD/SIX PORT USB/ 19" VIEWSONIC LCD MONITOR LOGITECH MULTIMEDIA KEYBOARD OPTICAL MOUSE System Code :p-05,p-09,p-11,p-19,p-20 4) HCL Infinite P-N Intel Pentium 2.44 GHZ 1GB RAM, 80 GB HDD, HCL Keyboard & CRT Monitor UNIX SERVER 5) DFE-1016D 16 port switch (D- Link) 6) DGS 1024 D 24 Port Switch 7) DES- 1024D 16 port switch (D-link) 8) LCD Acer Projector (PJ-01) Projector Screen VGA Cable (20 Mtr) 9) HP LASERJET PRINTER (PR-01) 10) HP	0.72
		Scanner (SCN-01) 11) 6KVA Online UPS UPS-01,UPS-02,UPS-03 12) Air Conditioner (LG) with stabilizer CCP/AC - 01, CCP/AC – 02	

7.	1)Advances in operating systems laboratory (14scs16-1st semester) 2)Cloud computing Laboratory-(1st Semester) 3)Advanced Algorithm laboratory (14CS26-IInd semester) 4)Advanced in computer networks laboratory-(IInd Semester)	1) Windows server (SR-01) super micro tower server CPU 1x3430, 2.40 GHz/ 4x4 GB DDR 111 RAM 500 GB Hard disk/chassis tower high efficiency power supply/ 4x3.5 SATA HDD Logitech USB Keyboard and mouse (Code :SR-01) 2).INTEL CORE-2 DUO, 2 GHz ,1GB DDR-1 RAM, INTEL 945 Mother board, 250GB SATA HDD, Six port USB, 19"View sonic LCD Monitor Logitech multimedia keyboard and optical mouse (Code No:C-07,C-08,C-09,C-10,C-11,C-12,C-46) 3).INTEL CORE-2 DUO 2 GHz/2 GB DDR-2 RAM/ INTEL 945 Original/ motherboard 250GB SATA HDD/Six port USB /19" View sonic LCD Monitor Logitech multimedia keyboard, optical mouse.(Code No:C-16,C-17,C-18,C-19,C-20,C-21,C-23,C-24,C-25,C-26,C-28,C-29,C-30,C-31,C-32,C-33,C-34,C-35,C-37,C-38,C-39,C-40,C-41,C-42,C-43,C-44) 4). INTEL CORE 2 DUO 2.8 GHz, INTEL 41RQ Motherboard / 500 GB, 2 GB RAM, LCD Monitor, DVD Write, USB Keyboard & mouse (Code No:C-47 staff system) 5) HP Scan jet 5370 C with Adaptor (code No:SCN-02) 6) HP Laser jet printer 1015 (code No:P-02) 7) Accer Projector with screen (8ft x 8ft) (Code No:PJ-09) 8) Kasper sky antivirus software (50 users & 50 Workstations) 9)Switch 24 port D-Link 100/1000 Giga 10) DES -1024 D 24 port Switch (D-Link) 11)DES-1016 D 16 port Switch (D-Link) 12) ALS-PCI-07/A ADDON Cards, 24 Lines digital 13)NIFC-01 +opt-1 to 12 V power supply 14)NIFC-01 +opt-1 to 5 V to 12 V power supply 15).ALSL-NIFC-09-Keyboard /Display interface 16).ALS-NIFC-17-Elevator interface 17) ALSL-NIFC-01 Dual stepper motor interface 18) ALSL-NIFC-05 Logic controller interface 19) ALS-NIFC-06A Dual DAC interface 20) ALS -NIFC-09 Matrix Keyboard display interface 21).ALS-NIFC-17 Elevator interface 22) Seagate 500GB SATA Hard disk 23) Switch 24 port D- Link 24).Mother board 41 25) Memory 2 GB DDR-3 Transcend 26) add on card 27) Keyboard 28).Logitech USB Mouse	16.71
8.	Computer Programming Laboratory (15CPL16/15CPL26-I/II Semester)	1) INTEL, Pentium D 2.8GHZ 512 MB RAM, 80 GB HDD, HCL Key board and CRT Monitor System Code: P-01,P-02,P-03,P-10,P-12,P-13,P-14,P-15,P-16,P-17,P-18,P-22 2) HCL Infinite P-N Intel Pentium 2.44GHZ 1GB RAM, 80 GB HDD, HCL Key board & CRT Monitor System code : p-04,p-06,p-07,p-08,p-21,p-23 3) INTEL CORE - 2 DUO 2 GHZ/1 GB DDR-2 RAM/INTEL , 945 ORIGINAL/MOTHER BOARD 250GB SATA HDD/SIX PORT USB/ 19" VIEWSONIC LCD MONITOR LOGITECH MULTIMEDIA KEYBOARD OPTICAL MOUSE System Code :p-05,p-09,p-11,p-19,p-20 4) HCL Infinite P-N Intel Pentium 2.44 GHZ 1GB RAM, 80 GB HDD, HCL Keyboard & CRT Monitor UNIX SERVER 5) DFE-1016D 16 port switch (D- Link) 6) DGS 1024 D 24 Port Switch 7) DES- 1024D 16 port switch (D- link) 8) LCD Acer Projector (PJ-01) Projector Screen VGA Cable (20 Mtr) 9)HP LASERJET PRINTER (PR-01) 10) HP Scanner (SCN-01) 11) 6KVA Online UPS UPS-01,UPS-02,UPS-03 12)Air Conditioner (LG) with stabilizer CCP/AC - 01, CCP/AC – 02	0.72
9.	1)Advances in operating systems laboratory (14scs16-1st semester) 2)Cloud computing Laboratory- (1st Semester) 3)Advanced Algorithm laboratory (14CS26-IInd semester) 4)Advanced in	1) INTEL CORE 13 Intel DH55 Motherboard Mercury 2GB DDR-3 Seagate 500GB, SATA HDD Cabinet With SMPS Logitech MM Keyboard & Mouse (BCO) 22" SAMSUNG TFT B-2230 (Code No: I-01,I-02,I-03,I-04,I-05,I-06,I-07,I-08,I-09,I-10,I-11,I-12,I-13,I-14,I-15,I-16,I-17,I-18,I-19,I-20,I-21,I-22,I-23,I-24,I-25,I-26,I-27,I-28,I-29,I-30) 2) INTEL CORE - 2 DUO 2GHZ/1 GB DDR-2 RAM/ Intel 945 Original/ Motherboard 250 GB SATA HDD/ SIX Port USB/ 19" View Sonic LCD Monitor Logitech Multimedia Keyboard Optical Mouse (Code No. : C-04,C-13,C-14,C-15) 3) a) Epson Projector (CSE/ PJ-10) b) Projector Screen (PSN-01) c) VGA Cable (20 Mtr) 4)HP Laser Jet Printer 1606 Dn (P-03) 5) Seagate	14.55

	computer networks laboratory-(2nd semester)	500GB Ext. HDD (X-HDD-01) 6)DVD Writer (LG External) (CSL1/DVD-01) 7) SMPS (Spare) 8) Hykon make B/Z 1000/24V 1KVA Offline UPS (Code No: UPS-06) 9) a) Switch 24 Port D- Link 100/1000 Giga b) DES-1024D 24 port Switch (D-link) c) DES-1016D 16 port switch (D-link) d)PATCH PANEL 10) (DES 1024) 24 Port Switch 11) Switch 24 Port D-Link. 100/1000 Giga 12) Switch 24 Port D-Link 100/1000 Giga 13) Air conditioner (1.5 Ton) Code No: AC-02, AC-03.AC-06	