VELLALAR COLLEGE FOR WOMEN (Autonomous), ERODE-12.



College with Potential for Excellence (Re-accredited with 'A' Grade by NAAC & Affiliated to Bharathiar University, Coimbatore – 641 046)



PG DEPARTMENT OF COMPUTER SCIENCE

NEWS LETTER ISSUE - V June-2018 to April-2019





"The education and empowerment of women throughout the world cannot fail to result in a more caring, tolerant and peaceful life for all"

ABOUT THE INSTITUTION

Vellalar College for Women established in July 1970, has a remarkable contribution to the empowerment and upliftment of rural women. With a great sense of pride and happiness, we record that our Institution has been Re-accredited with 'A' grade and CGPA of 3.43 by NAAC in the third cycle.

The institution's cogent vision and mission of consummate scholastic service has enabled it to evolve into College with Potential for Excellence in 2010 and currently accorded with the II turn of CPE funds which speaks for its consistency in academic excellence. It is a matter of pride that our Institution has secured 72nd Rank in the NIRF National Ranking 2019 and 86th rank in commerce discipline in the India Today Ranking.



EDITORIAL BOARD

PATRON : Dr. N. MARAGATHAM

Principal

EDITOR : Dr. B. ANANTHI

Associate Professor & Head

MEMBERS : Mrs. E. SAVEETHA

Mrs. C. SHANMUGAVADIVU

Dr. P. K. SARANYA

Dr. K. SRIDEVI

STUDENTS: Ms. K. VYSNAVIDEVI - II M.Sc.[CS]

Ms. P. SUHASINI - II M.Sc.[CS]

Inside this...

Vision and Mission

Students' Achievement

In and Around the department

Students Corner

Department Activities

VISION AND MISSION

ABOUT THE DEPARTMENT-

The Department of Computer Science has been established in the academic year 1997-98 and upgraded with PG Computer Science in the academic year 2010-11. The department has progressed rapidly with a well-equipped infrastructure and 15 dedicated faculty members who shape the students in all aspects.

VISION -

To enhance the excellence of the women students in the field of Computer Science thereby making them competitive professionals to match the Industry prerequisites.

MISSION -

- To impart moral and ethical values, and interpersonal skills to the students
- To empower the students to face the forth coming challenges with technological transfer
- Think critically and demonstrate organizational entrepreneurship in lifelong learning under various realistic constraints
- Support society by participating and encouraging in multidisciplinary environment

From the Editor's Desk... -

It gives me great pleasure to congratulate staff and students of our department for the fifth publication of newsletter. Newsletter is believed to be a focus of the inside activities of faculty and students achievement as well as innovation occurring in the department. This newsletter will motivate the students to share their creativity and new ideas and will help in their overall development. I wish good luck for all the team members for the publication of newsletter

FACULTY ACHIEVEMENTS

We are proud that our faculty members have achieved "Best Performing Mentor" and ELITE Certificates in NPTEL Online Courses "The Joy of Computing using Python" and "Designing Learner-Centric MOOCs"



Mrs. V. PRIYA



Dr. S. AKILA



Mrs. C. SHANMUGAVADIVU



We are proud that one of our faculty have received Summer Research Fellowship Programme sponsored by IASc, INSA and NASI, has worked on a project entitled "Bioinformatics Analysis of Leucine Repeats in Human Proteome" under the supervision of Dr. Dr. P. K. SARANYA K. Muruga Poopathi Raja, Madurai Kamaraj University.

IN AND AROUND THE DEPARTMENT

RESEARCH HIGHLIGHTS BY FACULTY

M.Phil. Produced : 05 Faculty members pursuing Ph.D. : 03 : 16

: 03 Research Publication in National/International Journals M.Phil. Ongoing

STAFF PUBLICATIONS

NAME	TITLE	JOURNAL
	An Efficient Method for Medical Image Compression using Multi Wavelet Transform with Spiht Algorithm	Journal of Advanced Research in Dynamical and Control System
	Performance Analysis of Failure Nodes using an Efficient Energy Aware Task Scheduling in a Cloud Environment	Journal of Advanced Research in Dynamical and Control System
	Resource Allocation and Task Scheduling in Cloud Environment	International Journal of Scientific Research and Review
Dr.B. Ananthi	Adaptive Clustering Method for Fault Tolerance in Cloud Environment	International Journal of Scientific Research and Review
	A Novel Encrypted Key based Secure Communication Protocol for Intrusion Detection and Prevention System in Manets	Journal of Advanced Research in Dynamical & Control Systems
	Comparative Analysis of Key Management System with Security Aspects in Mobileadhoc Networks	Journal of Applied Science and Computations
	Analysis of Crop Yield Prediction Using Data Mining Technique to Predict Annual Yield of Major Crops	International Research Journal of Engineering and Technology (IRJET)
	Real Time Resource Approximation for Improved Content Searching in Mobile Disconnected Networks	Journal of Web Engineering
Dr.P. Radha	Normalization Based Intelligent Risk Factor Classification System For Type-2 Diabetic Patients	Journal of Advanced Research in Dynamical and Control System
	Various feature selection techniques in type 2 diabetic patients for the prediction of cardiovascular disease	International Journal on Recent and innovation trends in computing and communication
	Prediction of weather and rainfall forecastingusing classification techniques	International Research journal of Engineering and Technology

Mrs. V.Priya	An Efficient Method For Medical Image Compression Using Multi Wavelet Transform With SPIHT Algorithm	Journal of Web Engineering
	A Review on Image Contrast Enhancement Using Histogram Equalization Technique	Recent Trends in Computing Technologies
	Image Encrypting using Arnold map	Asian journal of computer science and Technology
Mrs.P.Sridevi	Prediction of Fruits and flowers using image analysis techniques	International Research journal of Engineering and Technology
Mrs. K.Pavya	Hybrid Thyroid Stage Predication Models Combining Classification, Clustering and Ensemble Systems	International Journal of Engineering & Technology
Dr. P.K. Saranya	A Smart System for Indoor Plant Care	Journal of Computational Information Systems

DEPARTMENT ACTIVITIES

MEMORANDUM OF UNDERSTANDING

The Department signed a MoU for Android Programming with MM Techno Solution, Thiruchengode and Browzone Infotech, Erode for Final UG Students.

CERTIFICATE COURSES

The Department conducted a one year certificate course on Animation using Photoshop and Flash for I & II year UG Students. Students from various departments enrolled in the course to enhance their skills and job opportunities.

ACTIVITIES 2018-2019

"INTERNATIONAL SEMINAR"

The Department organized an INTERNATIONAL SEMINAR ON "CONTEMPORARY TECHNIQUES" on 21.08.2018. Dr. Hemalatha Mahalingam, Professor, Department of Electrical and Computer Engineering, King Abdul-Aziz University, Jeddah, Kingdom of Saudi Arabia, Dr. S. Kannimuthu, Associate Professor, Department of IT, Karpagam College of Engineering Coimbatore, and Dr. A. Geetha, Assistant Professor & Head, Department of Computer science, Chikkanna Government Arts College, Tiruppur acted as Resource Persons.



"INTER COLLEGIATE MEET"

The Department organized an "INTER COLLEGIATE MEET-CYBER EXPO" on 28.09.2018. Mr. J. Arumugam, M.Sc., M.B.A., PGDHRM, Librarian, PSG College of Technology, Coimbatore acted as the Resource Person and he gave Inaugural address to the students. Students from various colleges were participated in different events.

"EXOUSIA 2K19"

The Department conducted an EXPO - "EXOUSIA 2K19" on 07.02.2019 and 08.02.2019. Secretary Thiru S.D. Chandrasekar and Principal Dr. N.Maragatham inaugurated the exhibition. Students from various departments of our college visited the Expo.

"SPECIAL MEETING"

The Department organized a Special Meeting - "Mat Lab" on 24.01.2019. Mr.G.Dinesh, Web Developer, Appsmine Infotech, Solution Provider, Erode acted as the Resource Person. 46 I PG Students were benefited from this program.

The Department organized a Special Meeting - "Personality Development Programme" on 28.01.2019 and 29.01.2019. Mr. N. Loganathan, Director, Mullai Academy, Namakkal acted as the Resource Person. 132 Students of II UG & IPG were participated.

The Department organized a Special Meeting - "Perl Programming" on 12.02.2019. Mr. M. Naveen Kumar, Web Developer, Accent Techno Soft, Coimbatore acted as the Resource Person. 119 Students of IUG were benefited.

"GUEST LECTURE"

The Department organized a Guest Lecture entitled "Open Source Technology" on 19.07.2018. R.Manoj, MBA, Appsmine Infotech, Solution Provider, Erode acted as the Resource Person. 56 II PG Students.

The Department organized a Guest Lecture entitled "Python" on 25.02.2019 and 26.02.2019. Ms. S. Kayalvili, Associate Professor, Department of Computer Science and Engineering, Velalar College of Engineering and Technology, Erode-12 acted as the Resource Person. 106 II UG Students were attended the Lecture.



"TECHNICAL WORKSHOP"

The Department organized a workshop - "Python" on 06.08.2018. Ms.Kanchana, B.E., IT Trainer, Kalvi Higher Education & Research Institute, K.K Nagar, Madurai acted as the Resource Person. 96 | & || PG Students attended the workshop.

The Department organized a workshop - "PHP & MYSQL" on 19.09.2018. T.Karthi, Software Developer, and G.Dinesh, Web Developer Appsmine Infotech, Solution Provider, Erode acted as the Resource Persons. 55 II PG Students participated in the workshop.



The Department conducted Association competitions on Word Hunt and Power Point Presentation for UG students and Website Creation for PG students on 14.02.19.

"EXTENSION ACTIVITY"

Organized a one day extension activity for VIII Standard Students of Vellalar High School, Thindal. UG & PG Students of Computer Science exhibited nearly 100 models in different categories like Transport, Education, Agriculture, Banking etc. School Students visited this EXPO on 01.02.2019 and got benefited.









ACTIVITIES of FACULTY MEMBERS

STAFF PRESENTATION

NAME	TITLE OF THE PAPER	VENUE AND DATE
	A Survey on Crop Yield Prediction Using Data Mining Techniques	Department of Computer Science, PKR Arts College for Women, Gobi (16.08.2018)
Dr.B. Ananthi	A Review on Image Contrast Enhancement Using Histogram Equalization Technique	Department of Computer Science, PKR Arts College for Women, Gobi (16.08.2018)
	A Survey on Crop Yield Prediction Using Data Mining Techniques	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.V. Priya	A Review on Image Contrast Enhancement Using Histogram Equalization Technique	Department of Computer Science, PKR Arts College for Women, Gobi (16.08.2018)

Mrs.M. Revathi	A Survey on Data mining : Tools, Techniques, Applications, Trends and Issues	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
	Performance Evaluation of Sequence pattern Mining Algorithms	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.K. Abinaya	Enhancing the Lifetime of Wireless Sensor Network using Sleep Wake-up Scheduling Protocol	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
	Performance Evaluation of Sequence pattern Mining Algorithms	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.S. Deepa	Enhancing the Lifetime of Wireless Sensor Network using Sleep Wake-up Scheduling Protocol	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.E. Saveetha	A Survey on Data mining : Tools, Techniques, Applications, Trends and Issues	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.M. Karthiyayini	A Survey of OCR in the area of Image Processing	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.R. Mythili	A Survey of OCR in the area of Image Processing	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.C. Shanmugavadivu	Improving Link stability and energy aware routing by the identification of self-node in wireless networks	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
	Chaotic image Encryption then Compression	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
	A Survey on image analysis techniques in predicting yield of fruit and flowers	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)
Mrs.P. Sridevi	Chaotic Image Encryption with ANM Compression	NIE Institute of Technology, No 50(Part), Koorgalli, Hootagalli Industrial Area, Mysore,Karnataka.(20&21.09.2018)
	Image Encryption then Compression System for Secure transmission via Hybrid Henon Chaotic Map	Department of EEE,CSE & IT,PSG College of Technology,Coimbatore. 04.01.2019 & 05.01.2019
Mrs.K. Pavya	A review on support vector machine in data mining task	PG & Research Department of Computer Science, Bharathidasan College of Arts & Science, Erode (24.08.2018)

STUDENTS' ACHIEVEMENT

STUDENT'S' STRENGTH

 IB.Sc. [CS]
 A&B
 : 122
 IM.Sc.[CS]
 : 40

 II B.Sc. [CS]
 A&B
 : 110
 II M.Sc.[CS]
 : 54

III B.Sc.[CS] A&B : 94

PROFICIENCY PRIZE LIST 2018-19

S.No.	Student Name	Class	Proficiency (Major/Allied I / Allied II)	Prize (I / II)	Photos
1	D. Nivedha	II B.Sc.(CS)-'A'	Allied I	_	
2	T. Preetha	II B.Sc.(CS)-'B'	Allied I	II	
3	M. Madhumitha	III B.Sc.(CS)-'A'	Allied II	I	
4	S.Sangeetha	III B.Sc.(CS)-'B'	Allied II	II	
5	S. Brindha	III B.Sc.(CS)-'A'	Proficiency	I	
6	S.Sangeetha	III B.Sc.(CS)-'B'	Proficiency	II	
7	R. Smiruthi	II M.Sc.(CS)	Proficiency	I	
8	K. Logapriya	II M.Sc.(CS)	Proficiency	II	Carlo Carlo

Rank Holders - PG

Name	Photos	Prize (I / II)
SMIRUTHI. R		I
LOGAPRIYA .K		II
SUGANYA. R		III

NPTEL - ONLINE COURSE ACHIEVEMENT

SMIRUTHI. R - II M.SC., **ELITE with GOLD Certificate**

in "The Joy of Computing using Python" $\,$

47 students in II M.Sc. have completed

"The Joy of Computing using Python"

2 students in III B.Sc. have completed

"Problem Solving through Programming in C"



V

V

V

Placement PG

smiruthi R Max Health Insurance

Tamilselvi M Kashmi M

Tamilselvi M

Devibala S

Jenita R

Kaviya N

Kalaivani K Suroopika S K Bright Star

Placement UG

Gayathri A P wipro

Sowmiya M infosys Kavya K Nithya K Devi S Sushma S

Focus EdumaticsSrisha M

Roobashri P Nikila V Srisha M

Sasikaladevi P

Shalini S Vinayak Infotech

Sangeetha S CTS

Sona S

Renuka K

Elakkiya S

Yazhini B Srisha M hicitizen Balaabirami B

Farhana Parveen K

Kaviya S

Devibala S Kids Academy

IDEA SHOWERS

Name	Class	Title of Seminar/ Conference/ Workshop/ Symposium	Organizer	Event	Date	Prize
S.Subhiksha J.Uthera	II-B.Sc(CS)-'B'	Inter- Collegiate Meet	Erode Senguthar Engineering College	Quiz	30.08.2018	=
S.Subhiksha J.Uthera	II-B.Sc(CS)-'B'	Inter- Collegiate Meet	Erode Senguthar Engineering College	Android App	30.08.2018	II
M.Selvameena A.Shanmugapriya	II-B.Sc(CS)-'B'	Inter- Collegiate Meet	Erode Senguthar Engineering College	Android App	30.08.2018	III
B. Yazhini M. Sowmiya	III-B.Sc(CS)-'B'	Inter- Collegiate Meet	KGIS Institute of Information Management	GEEKADZ	07.09.2018	II
A.Shanmugapriya S.Benazir	II-B.Sc(CS)-'B' II-B.Sc(CS)-'A'	Inter- Collegiate Meet	Vellalar College of Engineering and Technology	Treasure Hunt	08.02.2019	11

M. Srisha	III-B.Sc(CS)-'B'	Intra- Collegiate Meet (ZOOPA)	Vellalar College for Women	Ms. Selfie	01.03.2019	I
J. Divya K. Keerthi	III-B.Sc(CS)-'A'	Intra- Collegiate Meet (ZOOPA)	Vellalar College for Women	Treasure Hunt	01.03.2019	I
B. Bala Abirami	III-B.Sc(CS)-'A'	Intra- Collegiate Meet (ZOOPA)	Vellalar College for Women	Ms. Photogenic	01.03.2019	I
M. Indhuja	I-B.Sc(CS)-'A'	Inter- Collegiate Meet	Bharathiyar University	Football	04.10.2018	I

INDUSTRIAL VISIT

The students of our department were taken to an educational tour to Chennai and Pondicherry from 15.08.2018 To 17.08.2018



EXTRA CURRICULAR ENGAGEMENTS

Apart from the academic involvements, coteries of enthusiastic minds engage themselves in meaningful contribution to the societal development. A sizeable number of students are a part of voluntary forums and clubs.

POSITION HELD IN COLLEGE UNION



GAYATHRI.B III B.Sc.(CS) - 'A' Association Secretary



ELAKKIYA.S III B.Sc.(CS) - 'A' Placement Secretary



DIVYAA.J III B.Sc.(CS) - 'A' Sapphire House Captain



S. Deepthee II B.Sc.(CS) - 'A' NSS Joint Secretary

VCW CHAMPIONS





Earn while learn

'Earn your success based on service to others, not at the expense of others'
-H.Jackson Brown, Jr.

III B.Sc.(CS)	I M.Sc.(CS)	II M.Sc.(CS)
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T.Bhuvana	V.Jeevitha	R.Afrin
1.011444114	v.seeviii id	17.77111111

S.Jeevitha D.Nisha M.Dhivya Barathi

A.Gokulapriya P.Roobashri S.Pavithra R.Ranjitha

Blood Patrons

If you really want to lend a hand, lend your arm' **K.Jeevitha - I M.Sc., (CS)**





S. RAHAMATHUNISHA
III-B.Sc(CS)-'B'



T.M. DHARANI
III-B.Sc(CS)-'A'



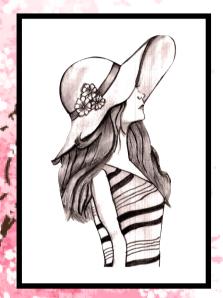
K. PUSHPA RANI III-B.Sc(CS)-'B'



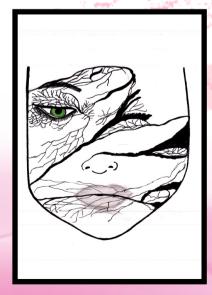
SHIFA AFRIN FATHIMA M
III-B.Sc(CS)-'B'



P.S. MADHUBARATHI
II-B.Sc(CS)-'B'



B.S. DEEPANIVASINI
II-B.Sc(CS)-'A'



T. BHUVANA
III-B.Sc(CS)-'A'



V. SINDHUJA I-B.Sc(CS)-'B'



M. DHARANI
II-B.Sc(CS)-'A'



R. BHUVANESHWARI
II-B.Sc(CS)-'A'



Why can't we write with a ballpoint pen on a smooth surface?

Ballpoint pens have a tiny ball made of brass, steed or tungsten carbide at their writing tip. The ball is fitted into a socked and is connecteed to the ink reservoir by a thin tube. when we write on paper, the ball rolls due to friction between the ball and the paper. This rotating movement allows the thick nk to flow out slowly leaving a mark on the paper. When drawn over a smooth surface as glass or plastic, there is little friction between the ball and the surface. The ball is unable to rotate and, as a result, the ink cannot flow out. Hence, we cannot write on smooth surfaces with a ballpoint pen.

2) How Do Erasers Erase?

A rubber eraser is used to erase marks on paper made by a lead pencil. The 'lead in the lead pencil is actually soft graphite which leaves black marks on the surface of paper. These black marks do not penetrate into the surface of paper but are held weakly onto the surface fibres of the paper. when we rub with an eraser these graphite particles are removed from the paper and stick to the soft rubber leaving the paper clean. The eraser itself wears off in the process leaving behind graphite coated bits.

INTERSTING FACTS

- 1) "TYPEWRITER" is the longest word that you can wrote using the letters only on one row of the keyboard of your computer.
- 2) Dong engelbart invented the first computer mouse which was made of wood in around 1964.
- 3) The house where Bill Gaes lives, was designed using a Macintosh computer.
- 4) The first ever hard disk drive was made in 1979, and could hold only 5MB of data.
- 5) The "Email" is older then the World Wide Web (WWW)
- 6) The first 1GB hard disk, announced in 1980, weighted about 550 pounds, and was Priced at \$40000
- 7) Sweden is a country with the highest percentage of internet users (75%)
- 8) "Stewardesses' is the longest word which can be typed with only the left hand.
- 9) Lenovo stands for "new legend". 'Le' for legend' & 'novo' stands for new
- 10) More than 80% of the sent mails are spam on daily term. et users. Mostly it covers guides and topics related to business, culture & technology.
- 11) Microprocessor for Calculator, the first of first microprocessor made by company (model 4004)
- 12) In 1936, Russians were the first who made a computer that can be used in water.
- 13) 40-55% of all Wikipedia Vendalism is caught by a single computer programme with 90% accuracy.
- 14) Gaming computers heat a room just as efficiently as a space heater does.
- 15) Hard disks are so sensitive to vibration, that just scanning at them diminishes their performance.

R.Manju,

II B.Sc (CS)-'B'

TOP 20 BEST TECH WEBSITES & BLOGS

1) Tech Crunch.com

Techcrunch is considered as one of the well kowns and popular website for providing quality information related to new gadgets & technology news, internet protals etc.

2) The Next Web.com

The Next Web is another leading blog on the internet which provides technology stuff on the daily basis to intern.

3) Wired.com

It is the third most popular media on the internet providing news related to latest trends of technology and publishes helpful guides related to latest or upcoming gadgets, science, entertainent etc.

4) Tech 2.com

Tech2.com mostly shares articles & guides related to TV,Mobil,Tablets,Laptop&Gaming device as well. It also covers podcasts,Videos & Photos related to as latest technology.

5) Gizmodo.com

Gizmodo.com is another leading source on the internet which mostly covers gadgets related news & guides is one of the best online portals for gadgets lovers.

6) Mashable.com

It is one of the top& much famous technology and which covers latest technology news, interesting stuff. The best part about this website is that you can check out related to latest technology news.

7) The verge.com

The verge is another most popular and famous technology blog for tech lovers which are mainly interesting in reading news, product review & information.

8) Digital Trends.com

Digital Trends is another largest hub of technology, computer gaming devices & interesting lifestyle guider and writes about Apple news as well.

9) Tech Rader.com

This sis most popular technology news and gadgets related websites on the internet it also publishes and roid related news & guides on the website.

10) Technorati.com

Technorati is useful and most popular technology website in the world of internet which help bloggers & tech blog owner to get more views on the websites.

11) Business Insider.com

Business Insider is the fast growing business site with deep financial.media, tech and other industry verticals.

12) Macrumors.com

Macrumors.com is a website focused on Apple news and rumors. It attracts a broad audience of both consumers and professionals interested in the latest technologies and products.

13) Venture beat.com

Venturebeat is a media company obsessed with covering amazing technology. From the most innovation tech and gaming companies.

14) Blog.us.Playstation.com

Recognized as a global leader in interactive and digital entertainment, Sony Interactive Entertainment (SIE) entertainment for the playstation brand and family of products.

15) Gigaom.com

Gigaom is technology research & analysis firm. It focus on helping business leaders understand the implications of emerging technologies & impact on business, media & society.

16) Engadget

Engadget is the definitive guide to this connected life. Technology isn't all about bits and process or

17) Slashgear.com

Delicated to highlighting the lastes & greatest in personal technology since 2005, it covers everything from cutting edge techgear to the latest digital lifestyle trend.

18) Ubergizmo.com

Ubergizmo talk about electronics in a way that everyone can relate to. From design to user interface to praticality, pricing & competition, to help what gadgets needed for user.

19) Driod-life.com

Droid-life has the greatest Andriod community in the world. They talk about general news, feature apps, review phone etc.

20) Eurogamer.net

Eurogamer.net was founded in sep 1999 and has been covering video games ever since. It cover every aspect of gaming-pc, console, indie, board games.

D.IndhumathiII-M.Sc [CS]



