

CS Horizon

Quest for knowledge never ends...



DEPARTMENT OF COMPUTER SCIENCE



Bi-Quarterly
e-Magazine

For Private Circulation Only

AUGUST - SEPTEMBER 2022 ISSUE

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VIVEKANANDA COLLEGE

College with Potential for Excellence

Residential & Autonomus -A Gurukula Institute of Life Training
Re-accredited (3rd cycle) with "A" Grade (CGPA 3.59 out of 4.00) by NAAC
DBT Star College Scheme Funded

Affiliated to the Madurai Kamaraj University, Madurai

Managed by Sri Ramakrishna Tapovanam, Tirupparaiturai, Trichy

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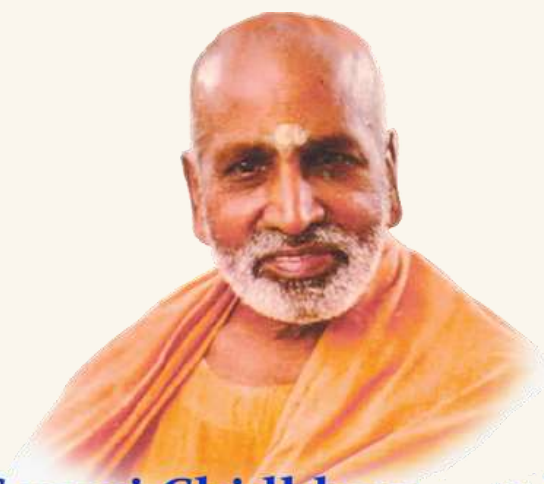
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Head & Assistant Professor of Computer Science

Sri.C.RANJITH KUMAR

Assistant Professor of Computer Science



Swami Chidbhavananda
(Founder)

SECRETARY'S MESSAGE

Dear Reader(S),

Today changes are happening in all fields and disciplines day by day at a rapid pace like never before. **"Every things new is replacing old things."** In modern days, changes are happening in all fields and disciplines at a rapid pace like never before. Every citizen of this country has to keep themselves in pace, updated and be culturally relevant in everyday life. **"Learning is never ending and not limited to specific disciplines today."** Creativity, relevance and expertise are the keys to succeed in this changing dynamic world.

This e-magazine **"CS-HORIZON"** is a quest for never ending knowledge by the students and faculty of computer science surfing through all disciplines such as science, technology, arts, culture, history, literature and languages.

The e-magazine, CS-Horizon aims to nurture creativity, article writing, **SECRETARY** dissemination of knowledge, poetry, facts, literature, cultural heritage, **SWAMI VEDANANDA** experiences of success and failures. I congratulate the computer science editorial team, students and faculty members who together contributed to release the second issue of this bi-Quarterly e-magazine, CS- Horizon.



KULAPATHY'S MESSAGE

Very much pleased to note that the Department of Computer Science of vivekananda college his publishing the second issue of the e-magazine "CS HORIZON"

Publishing an e-magazine is an innate nature for the future budding computer engineers. This e-magazine CS HORIZON will certainly become a platform to nurture article writing, do artistic work, provide technology updates, knowledge improving and sharing through e-media in this modern internet era. Publishing different topics related to computer science, reading, understanding, associating into a team, formatting, typesetting and publishing them as a compiled e-magazine will absolutely widen and uplift the student's knowledge on science, technology, arts, ecommerce, literature, culture, etc. A student study less in the class room but learn more in participating, supporting and publishing works this calibre. Let this e-



KULAPATHY

magazine CS HORIZON reach all the student and faculty community in terms of

readership, likes and healthy critics focussing growth, which in turn will enrich the **SWAMI**

ADHYATMANANDA knowledge of the students in their respective field of interest.

I wish a grand success to the second issue of the bi-Quarterly e-magazine CS HORIZON and my congratulations to all students of the department computer science, the faculty members and the editorial team who have made happen and I pray to the Trio to bless you all.

PRINCIPAL'S MESSAGE

I would like to congratulate, with great pleasure, the release of a second issue emagazine in the name of "CS HORIZON" with the motto "Quest for Knowledge Never Ends" by the students of Department of Computer Science of Vivekananda College, Tiruvedakam West, Madurai.

This e-magazine is created, edited and published by the students of Department of Computer Science, and offers to share and exchange of research ideas, knowledge, experiences, implementations and results in the field of computer science.

It is my hope that this fine collection of articles will be a valuable resource for the readers of this e-magazine and therefore sincerely contribute to the submission of

technical articles on all the areas of computer science.

I hope that this e-magazine will make a tangible difference in sharing articles.



PRINCIPAL
Dr. T. VENKATESAN

MESSAGE BY VICE PRINCIPAL



VICE – PRINCIPAL

Dr. K.KARTHIKEYAN It gives me an immense pleasure to share my thoughts about the second issue of e-magazine 'CS Horizon' released by the Department of Computer Science of our college. I appreciate the initiative taken by the staff and students in bringing out a quality e-magazine highlighting the various innovative practices and activities of the department. The creativity and imagination of the students are reflected in the magazine which will encourage the youth to focus their attention in improving their creative and critical thinking skills. I believe that the contents of the magazine will be highly impressive and interesting for the reader. I hope this kind of opportunity given to the students will certainly help them to acquire the 21st century skills which will ensure a better professional career. I take this opportunity to convey my best wishes to the staff and students of the Department of Computer Science to continue their endeavour in publishing such quality e-magazine in future.

MESSAGE BY DEAN AND COE

It gives me immense pleasure to know that the Department of Computer Science is publishing its e-magazine.

Department magazine has a great educative value. They encourage student to think and write. In fact, young talents find its first exposure through this medium. The magazine also records the achievements and various activities of the

department. I hope this publication would be successful in **DEAN AND COE** achieving these objectives.

Dr. G. SANJEEVI

My best wishes for the success of this e-magazine.



HOD'S MESSAGE

Congratulations to the student and faculty associated to magazine committee for successfully publishing the second issue of departmental magazine "CS HORIZON".

"CS HORIZON" has created a platform which provides an opportunity to the students and staff to express their original thoughts on "Poems, Arts, Story and Technical topics".

Students not only gain the knowledge about the latest technological developments and advancements through reading and writing articles but they also develop verbal and written communication skills.

It is a step towards building professional and ethical attitude in them

Sri. G. BALAJI the entire journey of creating "CS HORIZON" is an outcome of rigorous effort made by students and faculty.

On concluding note, I would like to thank all the stakeholders for their involvement and encouragement and wish all the best for their bright future.



HOD

QUOTES BY SUCCESSFUL LEADER



"A person who is happy is not happy because everything is right in his life, he is happy because his attitude towards everything in his life is right"

- SUNDAR PITCHAI

CEO of Alphabet Inc. and its subsidiary Google.

ABOUT THE COLLEGE

Vivekananda College, a Gurukula Institute of Life-training commenced its dedicated service in the field of Higher Education in June 1971, with the blessings of Swami Chidbhavananda Maharaj, our Founder President. The institution is located in the sprawling area of 100 acres of land at Tiruvedakam West in ideal rural surroundings amidst bounteous natural scenery all around on the northern bank of the river Vaigai. It is just 22 km away from Madurai. The College was conferred with the status of Autonomy in 1987. The College was reaccredited (III Cycle) with "A" Grade (CGPA 3.59 out of 4.00) by NAAC in 2015 (valid up to September 2022). The UGC granted the status of College with Potential for Excellence since April 2016. Our College has

ABOUT THE DEPARTMENT

been awarded with DBT Star College by the Ministry of Science and Technology.

The Department was established during the academic year 1994-1995. The Department offers B.Sc. Computer Science Degree Programme and Six Certificate Courses. M.Sc., Computer Science was offered during the 1998-2005. This department offers quality education at under graduate level. In addition to regular subjects various certificate courses are being taught to students. Every week Software Skill Development Programs are conducted to prepare the students for career opportunities in IT industry and for higher education. Computer learning program for school children is conducted frequently under extension activities.

AN INTRODUCTION TO CANVA

Continue...

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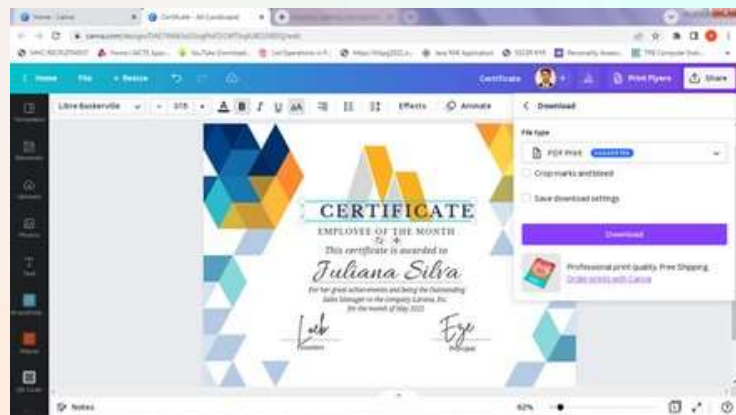
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- **SVG*.** Supports transparency*, keeps image quality at any size and is great for web graphics.



Author

Mr. S. Muthuganesh

**Assistant Professor of Computer Science
Vivekananda College**

TECHNOLOGY NEWS

Google Chromecast Could Soon Get A Cheaper Model With Full HD Support



According to GSMArena, a set of photos obtained by TechnoBlog shows images of a new, cheaper Chromecast that looks exactly like the Chromecast with Google TV. As per the report, though it is visually identical to the Chromecast with Google TV launched in 2020, it carries a different model number - G454V . This model has gone through Federal Communications Commission (FCC) certification already and it is rumoured to be different internally.

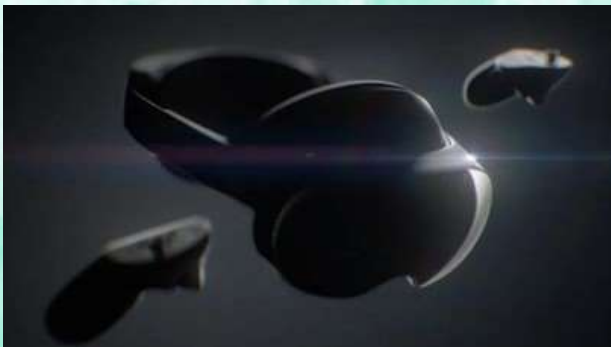
Samsung's New Washing Machines Spray Steam To Sanitise Clothes And Come With WiFi

Samsung has unveiled its Ecobubble range of fully automatic top load washing machines which come with Smart Control with Wi-Fi and a hygiene steam feature to sanitise clothes. The new range of Samsung Ecobubble washing machines come with Digital Inverter technology and is available at a starting price of Rs 19,000 going up to Rs 35,000. Select models will be available on

Samsung's official online store Samsung Shop, retail stores, and other ecommerce platforms such as Amazon and Flipkart.



Meta's upcoming 'Quest Pro' VR headset leaked before launch event



A leak from Brad Lynch has the Meta Quest Pro release date as October 25, 2022, with pre-orders available during Meta CEO Mark Zuckerberg's keynote speech during Meta Connect. Considering how the Meta Connect conference is happening on October 11, this potential release date could be legitimate.

By

B.Yashwanth

II B.Sc., Computer Science

Asanas For Life

BAKASANA



STEP-1



STEP-2



FINAL POSTURE

Step 1

Sit down and place your hand down, Keep your Knee on hand (Back arms) and Lift

Step 2

By your hand balance lift your whole body and look forward hold that portion for a minute.(Take Normal breath)

Step 3

Slowly down your whole body in your leg paw then relax

Benefits:

- Crow Pose strengthens arms, wrists, and stomach muscles.
- It improves focus and balance. This makes it easy to perform advanced-level yoga poses like Pincha Mayurasana.
- Kakasana boosts the functions of internal organs of the stomach.
- It reduces the belly fat and thereby aids in weight management.

Asanas For Life

POORNA SALABHASANA



STEP-1



STEP-2



FINAL POSTURE

Step 1

Lie down facing the ground (Makarasana Portion) then slowly lift your leg and tighten your abdomen muscle (Take normal breath).

Step 2

Then fold your leg and try to touch your head. Look straight then slowly bring down your legs to a normal position then relax.

Benefits:

- Increase in spinal strength and flexibility.
- Improved flexibility and tone of spinal muscles.
- Relief and prevention of lower backache.
- Relief of lumbago, rheumatism, arthritis and menstrual problems.
- Correction of bad posture

By
S.SRIRAM,(Dip inYOGA)
III B.Sc., Computer Science

POEMS



இயற்கை

மலைகளின் அழகு மனதை மயக்க
மேகங்களின் கூட்டம் கண்களை ஆட்பறிக்க
அருவியின் சத்தம் தென்றல் அகச்செவி சாய்க்க
பறவையின் சத்தம் பாரமாக இருந்த மனதை
பரிசுத்தமாக மலரைச் செய்த மரகதமே
மயங்குவேன் உன் மடியில்
விழிப்பேன் உன் நினைவில்....



சமூகம்

பண்டைய காலத்தில் பார்த்து பார்த்து
உருவாகிய உலகத்தை பாவிகள்
கையில் பரிசாகக் கொடுத்த பாட்டன்களே
பிறந்த குழந்தை பிஞ்சு என என்னாமல்
குப்பையில் வீசும் குருட்டு உலகம் இது
ஆயிரம்பேர்க்கு சோறு போட்ட கை
தான் வயிற்றுக்காக கை ஏந்தும்
அவளக்கொடுமைகள்
இவ்வுலகில் நான் பிறந்தது வரமா இல்லை சாபமா
என தெரியாமல் போகிறான்.



அன்பு

அன்புக்கு அடங்காதவர் எவரும் இல்லை
அன்பு இன்றி இவ்வுலகில் எதுவும் இல்லை
ஆறிலும் அன்பு நூறிலும் அன்பு
பூவின் மேல் வண்டுக்கு அன்பு
குழந்தை மேல் தாய்க்கு அன்பு
அன்பு வைத்தவர் அழிந்துபோனது இல்லை
அன்பு என்னும் உணர்வு இல்லாமல்
இவ்வுலகம் இயங்குவதும் இல்லை.



By

C. Rivin

III B.Sc., Computer Science

POEMS

விருப்பம்

நான் மனிதனாகவே
இருக்க விரும்பினேன்
புதிய புதிய லட்சியங்களும்
போராட்டங்களும் சந்திப்பும்
தன்னம்பிக்கையும்
என் மனதில் தோன்றியது !



முயற்சி

முயற்சி என்பது மனிதனுக்குக்
கிடைத்த நெற்றிக்கண்
ஆனால் அதை மனிதன்
காண்பதற்கு உபயோகிக்கவில்லை
தூங்குவதற்கு உபயோக்கிறான்
முயற்சியானது மின்விசிறிக் காற்றல்ல
வாழத் தேவைப்படும் சுவாசம்



எல்லை

நீ வளைந்து கொடுப்பவனாய் இரு
ஆனால் அதிகம் வளைந்து விடாதே
இறுதியாய் உன்னைப் புதைப்பதற்குக் கூட
நிமிர்த்த முடியாமல் போகும்
நீ பெருமையானவனாய் இரு
ஆனால் பொறுத்துக்கொள்ளாதே
இந்த பூமியை விட கேவலப்பட்டு போவாய்
நீ தவறுகளை மறப்பவனாக இரு
ஆனால் அதிகம் மறந்து விடாதே
உன்னையே உனக்கு
நினைவுபடுத்த வேண்டியிருக்கும்



தூக்கம்

நீ...அழகாய் நெய்யப்பட்ட
சிலந்தி வலை
இருட்டால் செய்யப்பட்ட
மயக்க வாஸ்து
நீ!



அம்மா அப்பா

அம்மா என்பது மூன்றெழுத்து
அப்பா என்பது மூன்றெழுத்து
நம்மளை பெற்றற்றெடுத்த தாய் என்பது
இரண்டெழுத்து
அப்பா என்பது ஒரு கோவில்
அம்மா என்றவள் அதில் சாமி ...



By

A.MARIRAJA

III B.Sc., Computer Science

இயற்கை மருத்துவம் வில்வம்

(Bael Fruit)
(*Aegle marmelos*)



வில்வம் பழத்தின் மருத்துவ குணங்கள்

குடல் பாதுகாப்பு

குடலை பாதுகாக்கும் உணவுகளில் தலை சிறந்த உணவு வில்வ பழம் ஆகும். இது நாம் உண்ணும் உணவினை நன்றாக ஜீரணிக்க உதவி, குடலை ஆரோக்கியமாக பாதுகாக்க உதவுகிறது.

இதயத்தை பாதுகாக்கும்

இதயத்தை பாதுகாக்கும் உணவுகளில் வில்வப் பழமும் ஒன்று. வில்வ பழத்தில் பொட்டாசியம் சத்து அதிகமாக இருப்பதால் மாரடைப்பு ஏற்படாமல் இதயத்தை ஆரோக்கியமாக பாதுகாக்கிறது. இதயம் ஆரோக்கியமாக இருந்தால் நம்மால் நீண்ட நாள்கள் வாழ முடியும்.

சளி தொல்லை

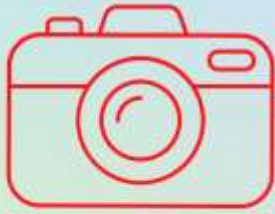
சிலருக்கு சளி தொல்லை அடிக்கடி இருக்கும். அவ்வாறு உள்ளவர்கள் வில்வ பழத்தினை ஜூஸ் தாயாரித்து, காலை மற்றும் மாலை எடுத்துக்கொண்டால் சளி தொல்லை நீங்கி உடல் ஆரோக்கியமாக இருக்கும்.

Author:

Bhuvaneshwaran. M

III-Year, B.Sc., Computer Science

Vivekananda College.



Photography



"The best view comes after the hardest climb."



"May what I do flow from me like a river, no forcing and no holding back, the way it is with children."



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இயற்கை விவசாயம்

இயற்கை விவசாயம் என்பது இயற்கையில் கிடைக்கக்கூடிய பொருட்களை வைத்து உரமாக அதனை தாவரங்களுக்கு இட்டு விவசாயம் செய்வர். இந்த விவசாய முறையில் எந்த ஒரு வேதி பொருட்களோ இரசாயனங்களோ சேர்க்காமல் இயற்கை உரங்களைக் கொண்டு விவசாயம் செய்வது இயற்கை விவசாயம் ஆகும்.

இயற்கை விவசாயத்தின் பயன்கள்:

இயற்கை உரத்தினால் வளர்ந்தச் செடிகளில் விளையும் பழங்கள், காய்கறிகள், பூக்கள் ஆகியவை மிக அதிகம் கிடைக்கும். இயற்கை விவசாயத்தினால் விளையும் காய்கறிகளையும் மற்றும் பழங்களையும் சாப்பிடுவதால் எதிர்ப்புச் சக்தி அதிகரிக்கும்.

இயற்கை உரம் செய்வது எப்படி? காய்கனி உரம் ...!

நாம் அன்றாட உணவுக்குத் தேவையான காய்கறிகளில் மீதமான காய்கறிகள் மற்றும் அழுகிய காய்கறிகள் மற்றும் முட்டை ஓடுகள் ஆகியவற்றை குப்பைகளாக எண்ணி அதை குப்பைத் தொட்டியில் போடுகிறோம். அந்த குப்பையில் அதிக நன்மை உண்டு காய்கறிகளின் தோல் அழுகிய காய்கறிகள் கொண்டு நாம் வளர்க்கும் செடிகளுக்கு உரம் இட்டால் அந்தச் செடியின் மகசூல் அதிகரிக்கும். நாம் அன்றாடம் காலையிலும் மாலையிலும் பருகும் தேநீரில் உள்ள மீதமான தேயிலைகளை நாம் விளைகின்ற செடிகளில் போட்டாள் எந்த பூச்சிகளும் அண்டாது. மேலும் பஞ்சகாவியமும் பயன்படுத்தலாம்.

முன்பெல்லாம் மண்களில் விதைகளை இடுவர். ஆனால் தற்போது தேங்காய் மட்டையில் உள்ள நார்களைக் கொண்டு விதைகளை இட்டு செடிகள் வளர்க்கின்றனர். இந்த தேங்காய் நார்களை ஆங்கிலத்தில்(cocopeat) என்று கூறுவர். அவ்விதைகள் சாதாரணச் செடிகள் வளர்கின்ற நாட்களை விட சற்று குறைவான நாட்களில் மகசூல் கிடைக்கிறது. தேங்காய் நார்கள்(cocopeat), நமது வீட்டிலும், நர்சரிகளிலும் கிடைக்கும்.



இயற்கை விவசாயத்தை ஊக்குவிக்கும் விதமாக நமது நாட்டு அரசாங்கம் ஒவ்வொரு வீட்டின் மாடியில் மாடி தோட்டம் அமைப்பதற்கு இலவச விதைகள், இயற்கை உரங்கள், வளர்க்கும் பைகள்(Grow bag) மற்றும் தேங்காய் நார்கள் வழங்குகிறார்கள். அத்துடன் சொட்டுநீர் பாசன கருவியும் வழங்குகிறார்கள்.

இதோ எங்கள் வீட்டின் மாடியில் இயற்கை உரங்களைக் கொண்டு மாடி தோட்டம் பராமறித்து வருகிறோம். அதில் வளர்த்த காய்கறிகளும், பூக்களும் கீழே புகைப்படத்தில் பார்க்கலாம்.

புகைப்படம் :



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SPREAD GREEN



SPREAD GREEN



DEPARTMENT ACTIVITIES

STUDENT ACHIEVEMENTS



S.Sriram, S.Pradeep and K.Kamesh kumar of III B.Sc Computer Science has participated in **46th Tamilnadu State Yoga Sports Championship 2022** held on 27.08.2022 at Jawahar Mahal and Arunachal Mahal, Palani won 1st Prize in under the age group of 14-20yrs.



J.Hariharan, M.Bhuvaneshwaran, S.Jeyabalaganesh, G.V.Keerthivasan, P.N.Mugizhan of III B.Sc Computer Science, B.Yashwanth, S.Sudhakar, B.Shriharan of II B.Sc Computer Science and M.Naveen, S.Varathan, K.Alagiri of I B.Sc Computer Science has participated in a webinar on **"Introduction to WEB 3.0"** on 25.08.2022 conducted by Google Developer Groups, Madurai .



Three students of Department of Computer Science has participated “**Kavithai Potti**” conducted by BHARATHIYAR SINTHANAI ARANGAM, Vivekananda College, Madurai held on 29.08.2022. K.Alagiri - I B.Sc Computer Science **won 1st prize**, C.Vasanth Kumar - I B.Sc Computer Science and C.Rivin - III B.Sc., Computer Science **won 2nd prize**.

GUEST LECTURE PROGRAMME



Department of Computer Science organized Guest lecture in “**Search Engine Optimization Basics**” on 08.08.2022. **Mr. N. NAGA VISHNU (Founder and CEO of Navi promotions)** delivered the guest lecture.

Software Skill Development Programme

Software Skill Development Programmes are organized every week of the month, students plan, prepare and organize events like Paper Presentations, IT Quiz, Technology News, Software Skills, Ad Act and Debugging in different programming languages. During the month of July and August three Software Skill Development Programs were conducted.



"SSDP-1" was conducted by the department of computer science on 05.08.2022(Friday) in the A.V hall by our usual opening prayer “Om Sahanavavadhu”. The gathering was Welcomed by Muthumanisekaran.R III-B.Sc.,CS. Tech News was done by Jeyabalaganesh S-III B.Sc.,CS. Paper Presentation presented by Hariharan J-III B.Sc.,CS , Yashwanth B-II B.Sc.,CS. The IT QUIZ program was organized by G.V.Keerthivasan-III B.Sc.,CS , R.Siva prasath-III B.Sc.,CS. The As You Like It was presented by K.Kameshkumar-III B.Sc.,CS , P.N.Mugizhan-III B.Sc.,CS , M.Manikandaprabhu-II B.Sc.,CS , C.Rivin-III B.Sc.,CS. vote of thanks was proposed by C.Gokul-III B.Sc., CS. The SSDP was hosted by A.Mariraja-III B.Sc., CS. The program ended by the prayer “Om Sarvebhavanthu”.



“SSDP-2” was conducted by the Department of Computer Science on 10.08.2022 in the A.V.hall by our usual opening prayer “Om Sahanavavadhu”. The gathering was Welcomed by Balaji E I-B.Sc.,CS. Paper Presentation was done by Mariraja A III-B.Sc CS and Jayasuriyan M II-B.Sc.,CS. Technology News was read by Sivarajagopalan S III-B.Sc CS. IT QUIZ was conducted by Subburam k III-B.Sc.,CS and Hariharan R II-B.Sc.,CS. The Software Marketing event was enacted by Vaakeesan M S III-B.Sc.,CS , Surendaran R III- B.Sc.,CS, Pravinkumar K III-B.Sc.,CS, Sudhakar S II-B.Sc.,CS. Vote of Thanks was proposed by Maheshwaran K I-B.Sc.,CS. SSDP was hosted by Santhoshkumar B III-B.Sc.,CS.

The Chief Guest of the programme was **Dr. G. BALAKRISHNAN** Assistant Professor of Chemistry, Coordinator-IGNOU, Vivekananda College. On completion of the programme the guest delivered a felicitation and a feedback about the programme. The Program Ended by Prayer “Om Sarvebhavanthu”.



“SSDP-3” was conducted by the Department of Computer Science on 24.08.2022 in CS Smart class room with our usual opening Prayer “Om Sahanavavadhu”. The gathering was Welcomed by Sukumar C I-B.Sc.,CS. Paper Presentation was done by Bhuvaneshwaran M III-B.Sc.,CS and Rivin III-B.Sc.,CS. Technology News was read by Yashwanth B II-B.Sc.,CS. The IT QUIZ was conducted by Sriram S III-B.Sc.,CS and Sivarajagopalan S III-B.Sc.,CS .The As You Like It was enacted by Balaji A III-B.Sc.,CS , Praveenkumar M III-B.Sc.,CS, Gokul C III-B.Sc.,CS, GoKul S I-B.Sc.,CS. Vote of Thanks was proposed by Ranjith S I-B.Sc.,CS. SSDP was hosted by Vikash S I-B.Sc.,CS.

The Chief Guest of the programme was **Dr. S. SRIDHAR SWAMINATHAN** Head & Assistant Professor of Sanskrit, Vivekananda College. On completion of the programme the guest delivered a felicitation and a feedback about the programme. The Program Ended by Prayer “Om Sarvebhavanthu”.

Faculty Achievements



Sri C.Ranjithkumar, Assistant Professor Department of Computer Science, Sri P.Gopinath, Assistant Professor Department of Computer Science has participated in Five Day Faculty Development Program on **“Robotic Process Automation Associate(UiPath)”** conducted by ICT Academy on 13 th to 17 th June 2022 at PSNA College of Engineering and Technology.

Sri C.Ranjith kumar Assistant Professor, Department of Computer Science has attended **FDP on Database Connectivities** organized by Department of Computer Science, St.Pious X Degree and PG College for women on 19 th July 2022.

Sri.S.Muthuganesh, Assistant Professor Department of Computer Science has Participated in the webinar on **“Impact Lecture Sessions on Incubation and Business Model Canvas Department in Start-up Ecosystem and Entrepreneurial Ideation”** Jointly Organized by IIC and IQAC of Vivekananda College, Madurai. Sponsored by MoE’s Innovation cell (MIC), AICTE, New Delhi on 24 th June 2022.



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