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Message by the Vice Chancellor

School of Computer Science and Applications (CSA) is glad to come up with its bi-annual Newsletter " PRAGATHI". Every Semester, at the School Level, there are various activities organized and conducted for the development of the Faculty Members as well as Students. There are programs scheduled and executed with an intent to provide a platform and exhibit talents in Students-be it academic or extra-curricular activities. Such activities are also an endeavor to contribute in their holistic development and imbibing in them a sense of social responsibility. The Magazine is an official record of all such events conducted through which people outside of School of CSA, get to know the activities and accomplishments of the School.

Message by the Director

School of CSA is glad to release its NewsLetter "PRAGATHI " , with an intent of the publishing the activities and achievements in various streams – academic, sports, co-curricular, extension activities. Focus on academics and non-academics, through various activities-be it Conduction of International Conference that gives a great opportunity for Students and Faculty Members to listen to great researchers, to have a sneak peek into their work and at the same time creating a platform that allows students and faculty members to present their work and get feedback from the experts, Conduction of Hackathon, in an effort to hone their coding skills and creative skills technically, Faculty members and Students collaborating to come up with innovative products that serve the Society. Furthermore, equal importance is also given to the holistic development of the Students. They are encouraged to get involved in Social Outreach activities that brings in them social awareness and makes them socially responsible. Conduction of various activities encourages the young minds to showcase their talents and motivates them to explore themselves. Our Endeavors and achievements are propelling us to soar higher and higher.

Course Details

Course	Duration
Bachelor of Computer Applications	3 years
Bachelor of Science(Hons)-Specialization in Cloud Computing and Big Data	3 years
Master of Science(Computer Science)	2 years
Master of Computer Applications	2 years
Master of Computer Applications	3 years
BSc(Cyber Security)	3 years
BSc(Multimedia and Animation)	3 years
Master of Science(Data Science)	2 years
Ph.D in Computer Science and Applications	3 years

Faculty Details	Strength
Faculty and Technical Staff Members	52
Professors	2
Associate Professors	8
Assistant Professors	40
Technical Staff Members	2

ORIENTATION PROGRAM FOR MCA – SPARK

This program was organized for PG (MCA) students to align the students with corporate expectations and also to provide an insight into the Corporate Environment. The resource person gave inputs as to what corporate expects and answered all the queries of the students. This event was discussion based.
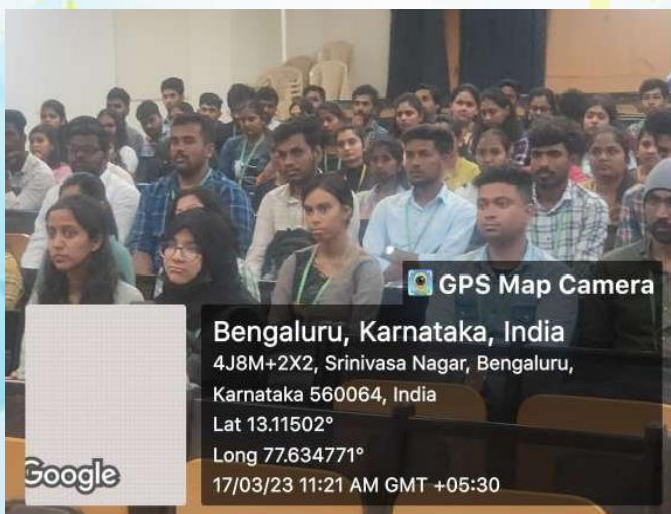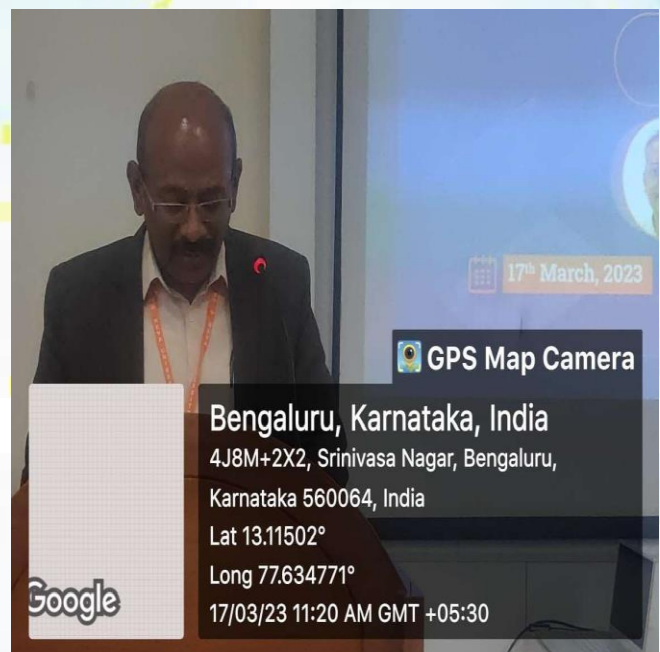
Alumni Cricket Tournament

The Objective of the program is to encourage the students to involve in sports even after their graduation, making to be active in sports, get the association with seniors and university. Around 50 students participated and 2015, 2020, 2021, 2022 batch students participated.

DECODING METAVERSE OPPORTUNITIES

This program was organized for all the students across UG and PG to incline and motivate them towards new technology.

The Metaverse is based on the integration of augmented reality (AR) and virtual reality (VR) technology, allowing for multimodal interactions with digital products, virtual settings, and people. As a result, Metaverse is a networked web of immersive and sociable multiuser permanent platforms.

FACE PAINTING

As part of REVOTHSAVA 2023, School of CSA organized FACE PAINTING Event on 28/4/2023 at 10:30 am. Out of 18 registrations 13 of them took part in the event from various colleges and universities. The Event had two rounds, the theme ILLUSION was given to paint in the first round for 2hrs. Second round was about briefing their art and judges interacted with each participant. The participants created a great creative outlet form their art painting, the event was beyond the world of traditional drawing and painting.

Outreach Activity

School of CSA from REVA University organized a Social Awareness Program on "Orphanage Laws in India: Protection of Orphanage Children" at Kritagyata Trust, Yelahanka on 4/5/2023. Students of CSA presented existing legal rights of orphan, orphanages and charitable homes, relevant laws and statues and the orphan child bills. The orphans were encouraged to do well in their studies and to be independent in life. The kids were donated with two line, box line, four line and single line notebooks

PARIKSHANAM 2023

To provide accessible healthcare services for all the REVA university staff members, students and parents, PARIKSHANAM 2023 (A healthy body holds a healthy soul and mind) a two-day Medical Camp was organized by the school of computer science and Applications on 18th and 19th may 2023. The medical camp was inaugurated by our honorable chancellor Dr. P Shamaraju. The event aimed to diagnose and treat common health issues, raise health awareness and maintain a healthy life. The services offered in this medical camp were Bone Mineral Density (BMD), Breast Cancer Screening, Height, Weight, Blood Pressure, ECG, Eye Screening, Thyroid, Cholesterol and Ayurveda General Consulta.ncy

MACHINE LEARNING IN HEALTH CARE

This program was organized for BCA students to motivate them towards new technology.

Machine learning is a growing technology which enables computers to learn automatically from past data. Machine learning uses various algorithms for building mathematical models and making predictions using historical data or information. Currently, it is being used for various tasks such as image recognition, speech recognition, email filtering, Facebook auto-tagging, recommended system, and many more.

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Workshop on "Adobe Illustration

The School of Computer Science and Applications organized a Workshop on "Adobe illustration"for the CSA students on 2-3rd June 2023. During the session, Mr. Samanyu has taught several workshops on various graphic design software, but his recent venture into teaching an Adobe Illustrator workshop has been particularly remarkable. The Adobe Illustrator workshop offered by Samanyu provided participants with a unique opportunity to dive deep into the world of digital art and illustration. The workshop covered a wide range of topics, including the basics of Adobe Illustrator, advanced techniques for creating stunning vector graphics, and practical exercises to apply the learned concepts. With Samanyu's guidance, participants not only learned how to navigate the Adobe Illustrator interface with ease but also discovered the endless possibilities it offers for unleashing their creativity.

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Expert talk on Vfx & Animation by Technicolor Studios

It was an informative and insightful session, offering valuable knowledge and practical insights into the animation and VFX industry. The speakers demonstrated a deep understanding of the animation and VFX field. Their expertise was evident through the examples provided, industry references, and real-world experiences shared during the talk. The seminar covered a wide range of topics related to animation and VFX, including industry trends, software tools, production processes, and career opportunities. Mr. Kamaljeet Singh shared insights about the vast network studios of Technicolor and the various opportunities our students can explore. Mr. Soumyadipta Roy, demonstrated passionate presentation of 3D & VFX with movie clips in each of the career profiles. Mr. Sandeep Sharma, explained about various learning opportunities from the Media & Entertainment Giant, Technicolor Academy & how students can enroll and learn from the experts.

Workshop on "Ethical Hacking"

The Objective of the program to explore the concepts in Ethical Hacking, skills of a Hacker, Need of Ethical Hacking, Process of Ethical Hacking and phases of Ethical Hacking. Describing how to experience different attacks. Ethical Hacking Workshop mainly focuses on the students eager to be a White Hat Hacker. It features a brief introduction to the world of hacking starting with the importance of ethical hackers and their need in today's world scenario, including to the basics of networking that will help you have a deep understanding of the working of internet.
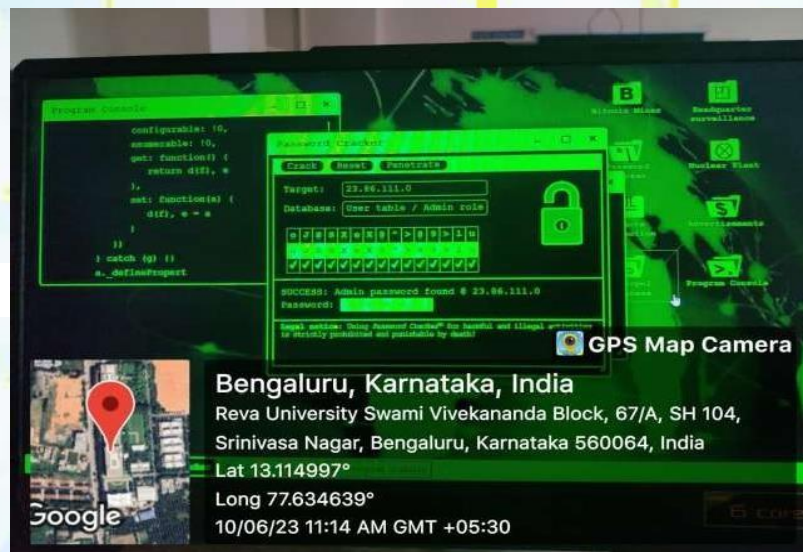
# International Conference on Innovative Computing Technologies and Applications (ICICTA 2023)

The Chief Patron for this conference is Dr. P. Shyama Raju sir, Hon'ble Chancellor , REVA University and the Patrons are Pro Chancellor- Mr. Umesh Raju sir, Vice-Chancellor- Dr. M. Dhanamjaya sir, Registrar - Dr. N Ramesh sir, Pro-Vice-Chancellors Dr. Vidya Shankar Shetty mam and Dr. Rajashekhar C Biradar sir, Dr. B P Divakar sir- Dean R&I and Dr. P Viswaswara Rao sir, Associate Dean and Director International Relations, REVA University, Bangalore. The Convener for this conference is Dr. S Senthil, Professor & Director, School of CSA, and the Organizing Coordinators are Dr. Deepa B G., Dr. Hemanth K S, Dr. Rajeev Ranjan, Dr. Bharath and Prof. Vijayalaxmi P Chinniwar.
The inaugural ceremony was held on 15th June 2023 at 10:00 AM with welcome remarks from Dr. S Senthil sir, Professor & Director, School of CSA. Dr. N. SUNDARARAJAN, Former Professor, School of EEE, Nanyang Technological University, Singapore was the Chief Guest. Ms. VINUTHA RAO M S, Global Head – Talent Acquisition and Development, Digital Business, HCL Technologies and Dr. REVATHY PADMANABAN, Associate Director, Strategy & Transformation, PepsiCo, Hyderabad were the guest of honour.
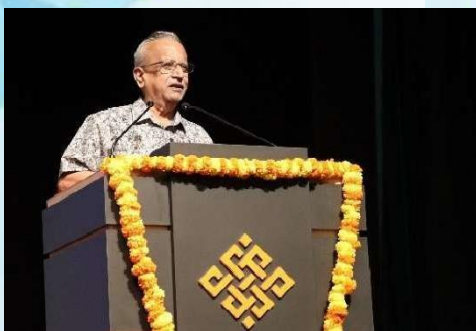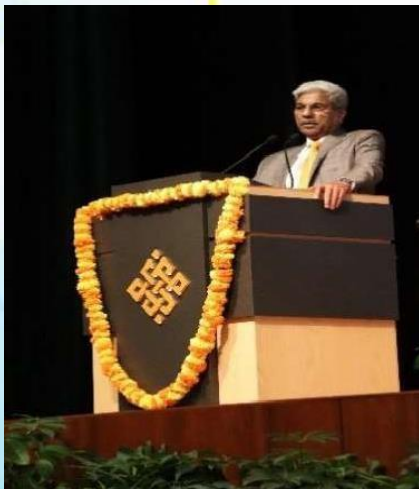
Immersion Program for BCA & BSc

The Immersion Programme (ORIGIN – 2023) from the School of Computer Science and Applications, REVA University has been creatively and aptly designed to give students a holistic learning experience. It gives them an incomparable opportunity to imbibe life skills, experience the significance of interdisciplinary education, and become digitally savvy even as they learn how to enhance their personal and social awareness. ORIGIN - 2023 is our endeavor to groom these young minds into well-rounded individuals and provide them with a competitive edge in their program.
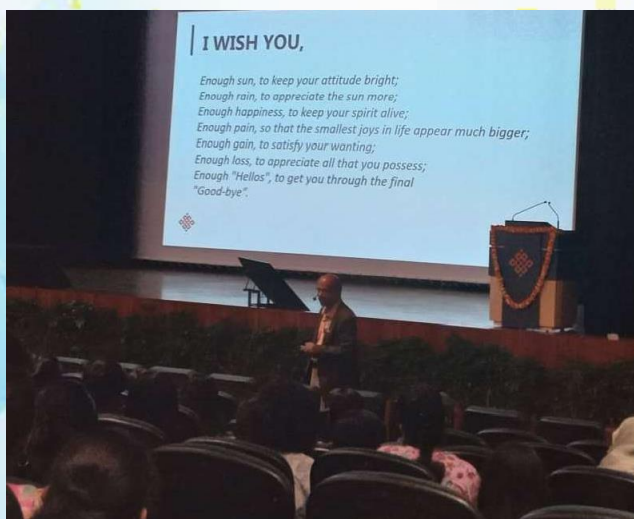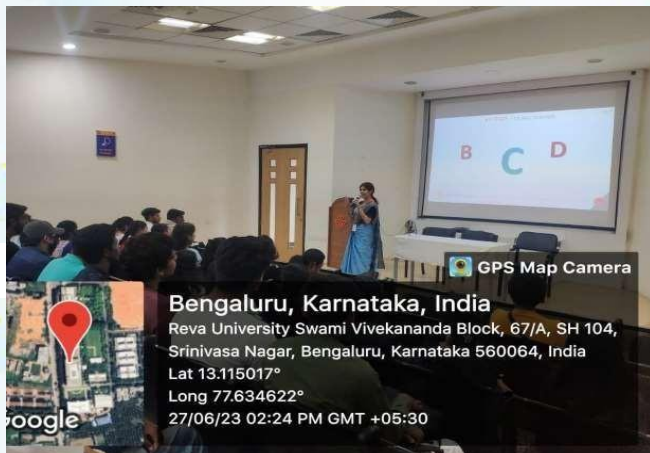
Founder's Day Celebration

Every year the chancellor's birthday is celebrated as Founder's Day at REVA University. On account of Founder's day an outreach activity was piloted to primary government school - Arebinamangala. A fun oriented commotion like Memory Chain, Pictionary, Busting Balloon and Balloon Train games were conducted to students on 4-1-2023. Students devotedly took active participation in all the games and adored the activity. On 6-1-2023, the Founder's Day was celebrated with the children of all grades

SDP Azure Fundamentals

This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product. This course primarily uses the Azure portal and command line interface to create resources and does not require scripting skills. Students in this course will gain confidence to take other role-based courses and certifications, such as Azure Administrator. This course combines lecture, demonstrations, and hands-on labs. This course will also help prepare someone for the AZ-900 exam. OUTCOME: This course measures students' ability to describe the following concepts like cloud concepts, core Azure services, core solutions and management tools on Azure, general security and network security features, identity, governance, privacy, compliance features, Azure cost management and Service Level Agreements.
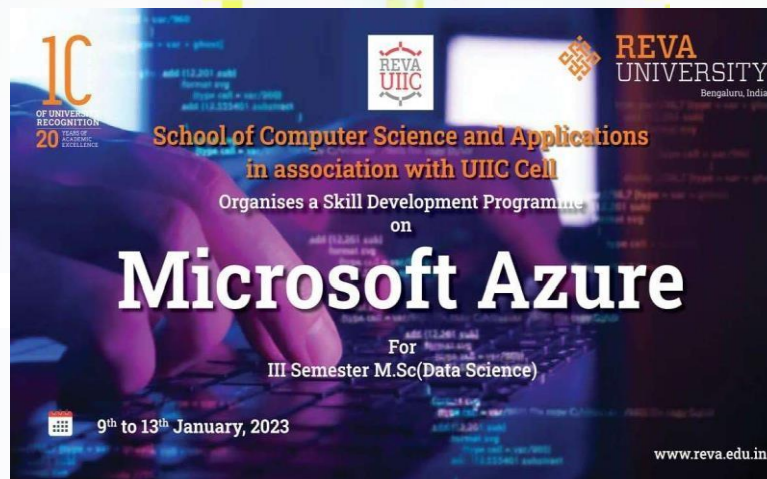
Skill Development Program

IT Specialist Pearson – Microsoft Azure Fundamentals This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product. This course primarily uses the Azure portal and command line interface to create resources and does not require scripting skills. Students in this course will gain confidence to take other role-based courses and certifications, such as Azure Administrator. This course combines lecture, demonstrations, and hands-on labs. This course will also help prepare someone for the AZ-900 exam.

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Skill Development Program Data Science with Python

These are the key learning outcomes for this syllabus:

1. Translate fundamental programming concepts such as lists, dictionaries, etc into Python code. 2.
Understand about using jupyter and Anaconda environment management.
3. Understand about Data science, Industrial applications and important terminologies.
4. How to write functions in Python and assess if they are correct via unit testing.
5. Know when and how math for Data science..
6. Produce human-readable code that incorporates best practices of programming, documentation,
and coding style.
7. Use Pandas to create and manipulate data structures (Data Acquisition, Data visualization).
8. Basics of advanced topics like Hypothesis testing, Gradient decent and Case studies to explore and
apply in real time applications.

Report on Social Awareness Program

Social Awareness Program is conducted to establish a beneficial connection between the people and organization. As a part of social awareness program - School of Computer Science and Application from REVA University organized one day awareness program about Good Touch and Bad Touch to primary government school – Arebinamangala. Students of MSc and MCA demonstrated about different touch using a doll. The girls and boys were educated separately. The aim of this activity is to educate the society. REVA University initiated such programs to reach the adopted school and educate the school children with such awareness programs. With the support and guidance of director Dr. S. Senthil, the school was visited by Prof. Sheela D V, Prof. Divyashree D and PG Students on 20/1/2023 through the university bus. The beneficiaries for the program are from Class I to Class V students. The students were able to differentiate between the different touch and aware about the unusual touch. The students were also educated to inform their mother if they face any such unusual matters.

Expert lecture on " Exemplifying Research Journey through Biometric&quote

The talk on "Exemplifying Research Journey Through Biometrics" was conducted on January 23, 2023, at the School of Computer Science and Applications, REVA University. The resource person for the talk was Dr. B H Shekar, a professor of computer science at Mangalore University. The talk was attended by students and faculty members from the computer science and applications related fields. Highlights: Dr. Shekar started the talk by explaining the importance of biometrics in various fields, including security, healthcare, and banking. He then went on to describe the various types of biometric systems, such as fingerprint recognition, iris recognition, and facial recognition. He also discussed the challenges faced in implementing biometric systems, including issues related to accuracy, security, and privacy. He emphasized the need for research in the field to address these challenges and improve the performance of biometric systems.

"Session on Patenting and Copyrights Procedure"

The speaker for the session was Ms Arshiya Ambreen, UIIC Department.
The session started with a brief introduction to IP. Resource person gave a deeper insight of IP the basic characteristics of creations and innovation required for it be called as an IP, examples that the attendees could easily relate to and understand. The Brief session on the documentation of the patent was given regarding the format and information that should be given in a systematic manner The Speaker also spoke about Copyright, Designs, TradeMark and Trade Secrets. and even and even about the procedure to be followed while drafting a complete specification (Form-2). The whole session was interactive and interesting.The session was organized in Smart Class Room at, Sir M V Block and was coordinated by Dr. Rajeev Ranjan

REVA International Visiting Professor's SDP series on "RESEARCH METHODOLOGY

To provide students with the skills and knowledge necessary to conduct research effectively and ethically. This includes learning how to design research studies, collect and analyze data, and draw conclusions from findings. Additionally, a research methodology program aims to teach students how to critically evaluate existing research and understand the various research methods and approaches available. By the end of the program, students should be able to plan and execute research projects independently and communicate their findings clearly and effectively. Overall, the objective is to prepare students to become competent researchers who can contribute to their fields of study and make a meaningful impact in their respective industries.

Summary: Prof. Syed M Buhari conducted a 6-day program on Research Methodology for 3rd MSc and 3rd MCA students

Five Day Faculty Development Programme on "Artificial Intelligence and Machine Learning"

Objective: This Five-day Faculty Development Programme on Artificial Intelligence and Machine Learning provided a forum for the faculty members to upgrade themselves on the intricacies of Artificial Intelligence, Machine Learning. It aimed to enhance the knowledge and skills of the Academicians so that they can cater to the aspiring students.
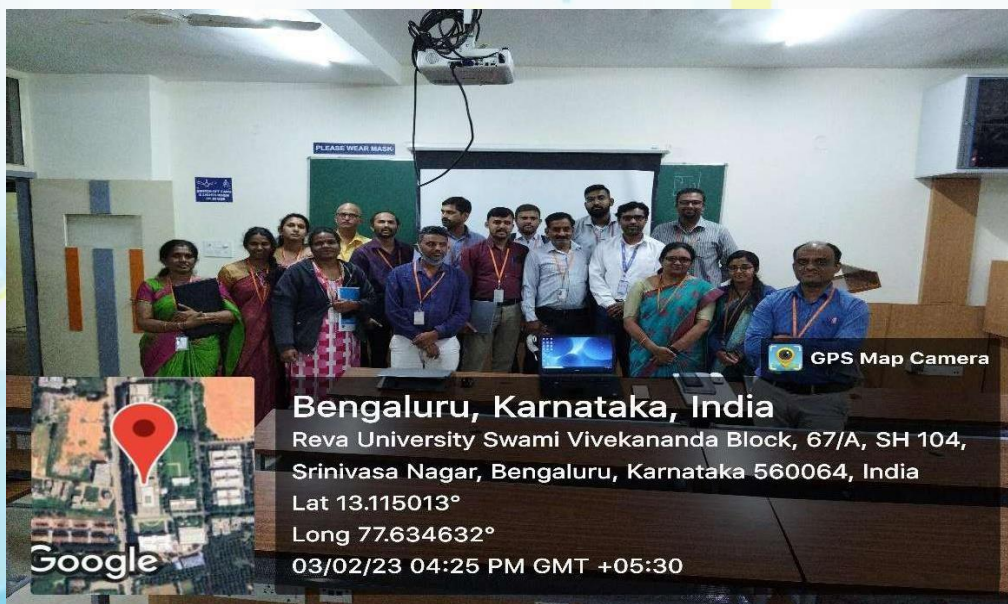
Seminar on "Hunting BUGS to secure the World"

Cyber security should be a personal hygiene followed by every individual in the current world, Collages are the best places to teach about cyber security. There are more than 15 million requirements for cyber security experts in the current job market. The Cybersecurity club is created with a Goal to provide students the necessary knowledge and skills pertains to the domain. Bug hunting is major part of cyber security and one of the most practiced. Bug Hunting is required to identify loopholes in a website and software. The vulnerabilities that emerged with the Bug Bounty hunt are eliminated, resulting in more robust and secure software. In other words, it can be called as a continuous security audit & improvement. Mr. Mayank Gandhi had talked about bug bounty hunting and few domains in cybersecurity like red teaming, blue teaming, purple teaming and DevSec Ops. He showed few live hunting of known bugs like OTP bypass and cross-site scripting. He also mentioned about the ways students can start hunting bugs in 5 stages. The session was conducted online through Teams from 05:00 P.M to 6:00 P.M and it was open to all REVA students.

Expert Talk on "Unleashing the strategies of Early Innovation in Startups for Success"

The Main aim of the Expert talk which was organized was to train our young minds to the path of success. It guided the participants on how they could be one of those successful entrepreneurs who used their creative thinking into creating something new. This talk provides the various ideas and also leads the students to think out of the boundary limit in order to encourage their creativity and innovating skills and implement them in their future projects.

A Talk on "Awareness on Professional Membership

ACM Member Benefits:

➢ A full-year subscription to XRDS : Crossroads, ACM's Student Magazine.
➢ A full-year electronic subscription to monthly MemberNet newsletter.
➢ Students can participation in ACM Distinguished Speakers Program(DSP).
➢ TechNews (tri weekly) and CarrerNews (twice monthly) digest access.
➢ Discounts on subscriptions to ACM journals, magazines, books, and conferences.
➢ Special discounts and access to valuable products and services through the ACM'sInsurance and discount and special offer program.
➢ ACM's Career and Job, where you will find targeted job opportunities and more.
➢ Volunteering opportunities to gain hands-on experience and knowledge.
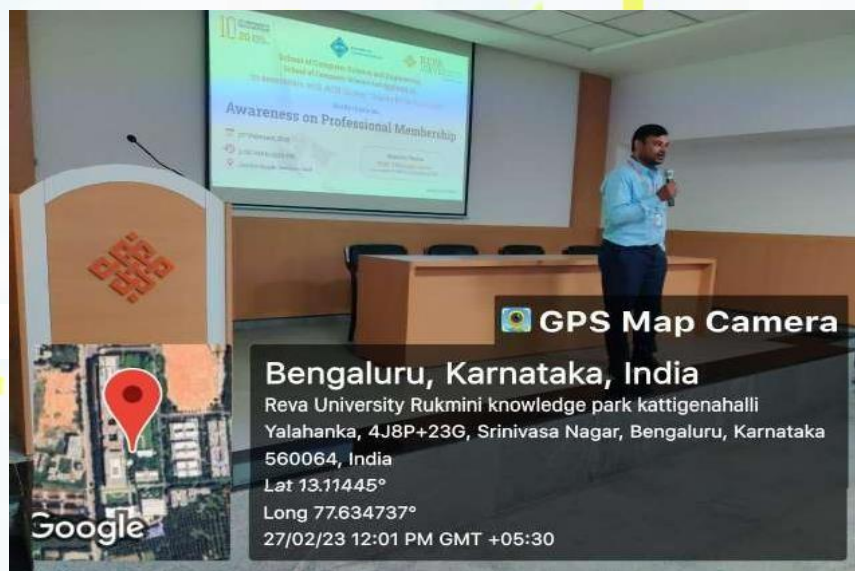
Fresher's Day

The event was structured in the three categories based on Dancing, Singing, Band & the main event Mr. & Ms. Fresher's of NAVATAR - 23. The opening act of Program was invocation song followed by barthanatyam dance was performed by student, followed by couple dance, solo dance, dance battle, group dance. Band and Tabala play were mesmerized with the amount of talent the students have portrayed with their melodious voice and jankar beats. After completion of fashion show, hosts announced Mr. & Ms. Fresher's 2023 & Runners-up who were awarded by Dr. Vinayak Murthy, and Dr. Ambli with a sash and gifts. Such an amazing event could not be even successful without the help of each and every member of Student Forum and participants. The event was ended with Dance and DJ music where all the students dance to the beats enjoying pure bliss moment.

AVYANNA-23

1. To express love and gratitude towards womens contribution to our lives and society.
2. To celebrate the progress made towards achieving gender equality and womens empowerment
3. The observance will explore the impact of the digital gender gap on widening economic and social inequalities
4. To spotlight the importance of protecting the rights of women and girls in digital space and gender-based violence.
5. To recognize womens achievements and raise awareness.

International Women's Day AVYANNA-23 was celebrated at school of CSA on 13 th March 2023 in Library Seminar Hall by organizing seminar on "DigitAll : Innovation and Technology for gender Equality" by the guest speaker Dr. Geethanjali P. The purpose of celebrating Women's Day was sensitization about "Gender equality and women's empowerment". At the outset of program Director, Dr. Senthil S welcomed the gathering, the speaker Dr. Geetanjali P (PDC & COE, i-Nurtute Education Solutions Private Limited,Bangalore) offered expert talk on gender equality in Innovation and technology. She talked about Women Entrepreneurship which is necessary to initiate the process of economic development of both developed and developing countries as it is the back bone of economy of any country. Women entrepreneur has been recognized during the last few years as an important untapped source of economic growth.

CRICKET CARNIVAL-23 is an Intra School tournament organized by the school of CSA on 17-3-2023 for all the UG and PG students of CSA under the support of Director Dr. S Senthil. The chief guest for the tournament was Dr. Deepak, Head of Physical Education. There were 13 teams registered, match was conducted in 3 rounds league match, semifinal and final match by creating fixtures on registered teams. The first prize grabbed by 4 th Sem BCA -Team-FRIENDS and Runners was 6 th Sem BCA-Team- CLAWS-XI. The tournament ended with the prize distribution by chief guest and director.

Outcome:

Playing cricket can vary depending on the individual or team involved. Some people play cricket for leisure, while others play it professionally. Playing cricket can also have other positive outcomes, such as promoting physical fitness, improving hand-eye coordination, teamwork skills, and fostering a sense of sportsmanship.
It can lead to various personal and professional accomplishments, and promote physical and mental well-being.

Placements

SL.NO	PROGRAM	COMPANY	PACKAGE	TOTAL COUNT
1		ACCENTURE	3.5	5
2		CODEYOUNG	7.36	3
3		DELOITTE	3.82	6
4		PWC IT SERVICES	3	4
5		HAPPIEST MINDS	9 2.8	9
6		IBM Kyndryl	4.5	14
7		Indegene	3.2	14
8	BCA	Mindtree	3.1	3
9		Mr.Cooper	2.5	1
10		MyCaptain	5	5
11		Sirius	4.5	3
12		SUTHRERLAND GLOBAL SERVICES	3	11
13		WEBSWIPE PVT LTD	4	1

SL.NO	PROGRAM	COMPANY	PACKAGE	TOTAL COUNT
1		ACCENTURE	3.5	1
2		CODEOUNG	7.36	5
		DELOITTE	3.82	1
	B.SC(H)	HAPPIEST MINDS	2.8	1
		IBM Kyndryl	4.5	9
		Mr.Cooper	2.5	2
		Spektra Systems	3	4

SL.NO	PROGRAM	COMPANY	PACKAGE	TOTAL COUNT
1		CAPGEMINI	4.25	1
2		GenC	4	1
13		In Time Tec Visionsoft Pvt, Capgemini	5	1
4		L&T Technology Services	4	2

SL.NO	PROGRAM	COMPANY	PACKAGE	TOTAL COUNT
5	M.SC(DS)	SIRIUS	6	1
6		TalentServe	6	2
7		TheMathCompany,	5.5	1
8		WISEWORK	2.8	6
9		CODEYOUNG	7.36	1
10		MY CAPTAIN	5	1

SL.NO	PROGRAM	COMPANY	PACKAGE	TOTAL COUNT
1	MCA	Atlassian, Teachnook, TalentServe	16.8	1
2		Beckman Coulter	25000 Per month - Stipend	1
3		Capgemini	4.25	1
4		Deloitte USI Consulting	4.25	1
5		EDUSTATION	5	1
6		G7 CR Technologies er	3	3
7		Happiest Minds Technologies	5.4	2
8		IBM CodeKnack	4.5	1
9		In Time Tec Visionsoft Pvt, Capgemini , GenC	5	1
10		Kyndryl	5	6
11		L&T Technology Services, Teachnook	6	1
12		MINDTREE	4	6
13		MOBILE TUTOR	3	1
14		MyCaptain	5	1
15		Oracle Cerner	6	1
17		REVARACE	2	2.8
18		TECHNOOK	6	2
19		MATHCOMPANY	5.5	1

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