

**Department of B.Sc. Computer Science and
Cyber Security
LOYOLA ACADEMY
Secunderabad**

Department of B.Sc. Computer Science and Cyber Security

Introduction to the Department

Department of cyber security

- Started in year 2021
- One of the few colleges that are offering a Degree in Cyber Security
- Following is the list of few subjects that are offered in the department.
 - Ethical Hacking
 - Computer forensics
 - Server administration
 - Python programming
 - Web application and Penetration Testing

“Verify, verify, verify

If the old real estate adage “location, location, location” was applied to cybersecurity, it would translate as “verify, verify, verify”. There is no harm in verifying the authenticity of a suspicious email, message or voicemail and it could save you or your organization from a devastating breach.”

-Mrs. P Sushma

Head of the Department

Vision & Mission of the Department

Vision: To develop competent and innovative cyber technocrats , by imparting human values and ethics for serving the cyber security needs to the society with highest regard to the motherland.

Mission: To enhance the technical skills of the students with practical approaches and Industry-Institute interactions.

Highlights of the Department

While our lecturers go out of their way to make classes as engaging as possible, we also include plenty of practical work and participatory activities to let the students hone their skills against their peers. Here are a few things we do differently:

Risk management Regime

- Secure Configuration
- Network security
- Managing user privileges
- user education & awareness
- Malware prevention

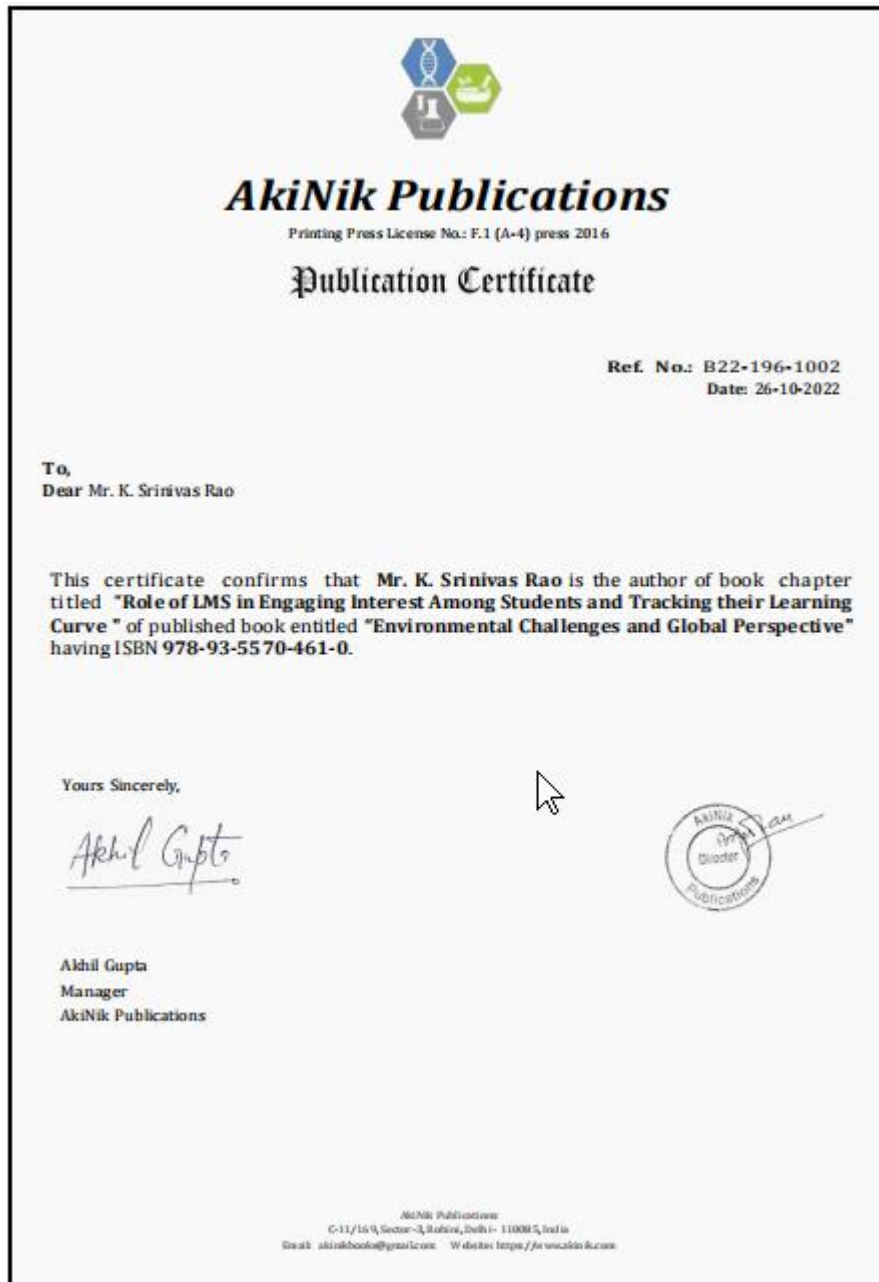
Staff Details

S.no.	Name of the faculty	Qualification	Designation
1.	P. Sushma	M.Sc. M.Tech. Ph.D.	HOD
2.	T. Ramya	M.Tech. (Ph.D.)	Assistant Professor
3.	K. Srinivas Rao	MCA. B.Ed.	Assistant Professor
4.	David Raju	M.A.	Assistant Professor

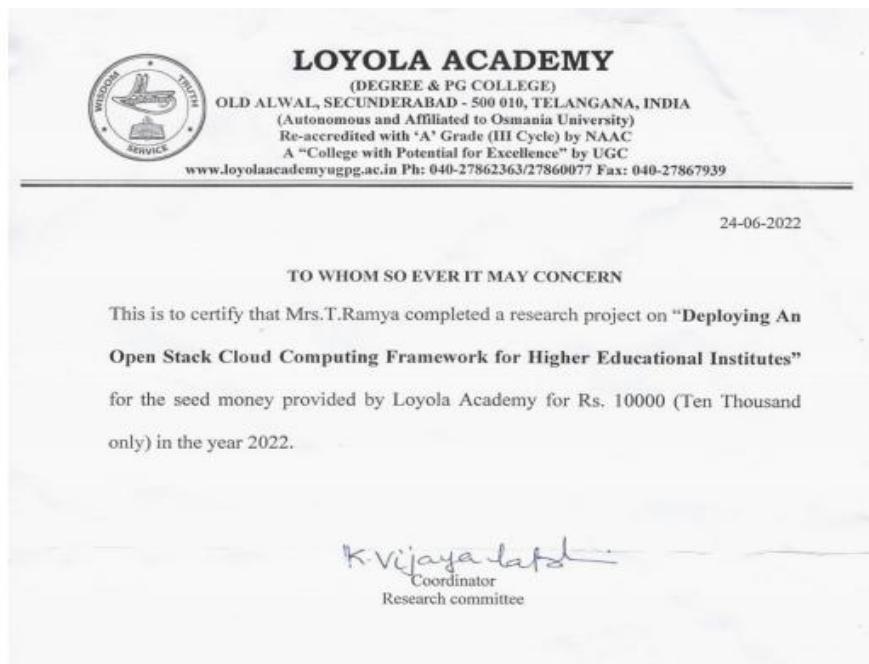
Achievements of the Department

Staff attended conference/workshops inside and outside the college

1. Mr. K Srinivas Rao, Published Chapter with Reference Number B22-196-1002 under the theme Futuristic Trends in Social Sciences dated 26-10-2022



2. Mrs. Ramya T, has successfully completed a research project on Open Stack in Cloud Computing in Loyola Academy on 24-06-2022



3. Mrs. P. Sushma published a paper at the International Multidisciplinary Conference on Emerging Trends, Loyola Academy on 26th November 2022, vol-12, issue-12, No. 03 2347-718 in dogo rangsang research journal, Hyderabad.



4. Mrs. T. Ramya published a paper at the the International Multidisciplinary Conference on Emerging Trends, Loyola Academy on 26th November 2022, vol-12, issue-12, No. 03 2347-718 in dogo rangsang research journal, hyderabad.



5. Mrs. P Sushma was Appreciated by Loyola Academy for being Awarded Ph.D. in 2023 by Osmania University.



6. Mrs. Sushma participated in National seminar on Research and Project development in statistical techniques, Hyderabad, 2023.3.29
7. Mrs. Sushma attended a National level FEP on Pedagogical Innovation in Higher Education Hyderabad, 2023.
8. Mrs. Sushma attended a national seminar on Basics of Business analytics, Hyderabad, 2022.
9. Mrs. Sushma. P attended a FDP on Mastering data science with python Hyderabad FDP 2022.
10. Mrs. Sushma P organised a five day FDP on Yoga for Happier Living at Loyola Academy, Hyderabad, 2022
11. Mr. Srinivas published a paper on Automate data collection of the examination results in affiliated colleges using web scraping Techniques 2022 vol-12, issue-12, No. 03 2347-718 in dogo rangsang research journal, Hyderabad.

Staff publications for the AY 2022-23

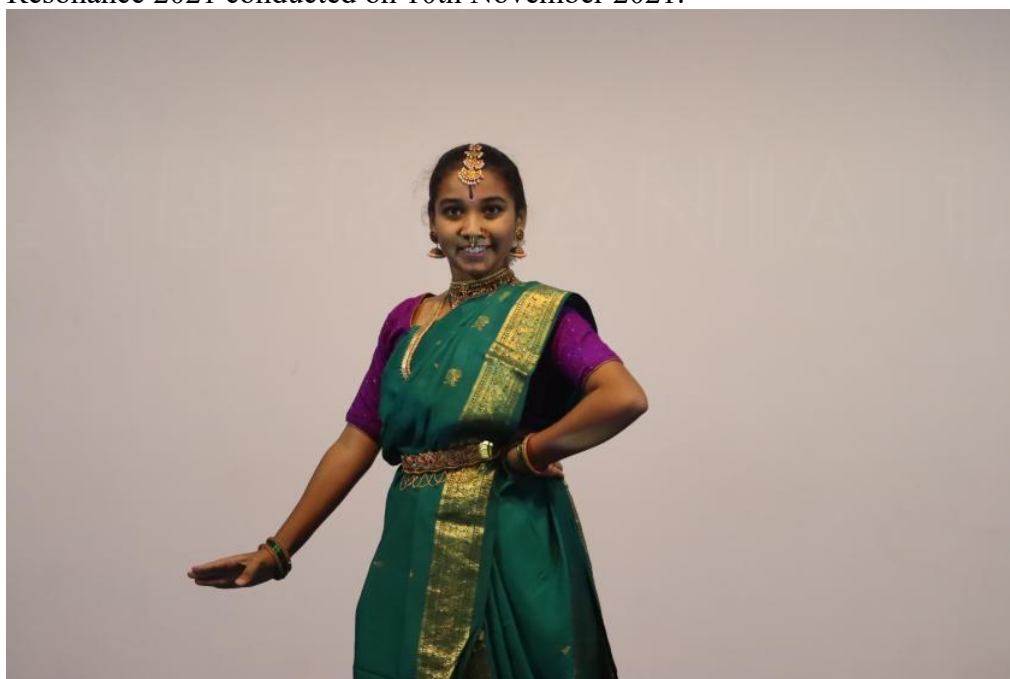
1. Mrs. P. Sushma published a paper at the International Multidisciplinary Conference on Emerging Trends, on Armstrong Number Encryption Standard for Smart devices - An IoT based Encryption Algorithm at Loyola Academy on 26th November 2022, vol-12, issue-12, No. 03 2347-7180 in dogo rangsang research journal, Hyderabad
2. Mr. Srinivas published a paper on Automate data collection of the examination results in affiliated colleges using web scraping Techniques 2022 vol-12, issue-12, No. 03 2347-7180 in dogo rangsang research journal, Hyderabad.
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Achievements of the Department (Year-wise)

1. Mr. Cyril Nelon Fransis was awarded the Best Paper presentation at an International Multidisciplinary Conference on Emerging Technologies IMCOET 2022 on 26th November, 2022



2. Ms. R V Harithanjali won third prize in classical dance solo at Intra Collegiate Resonance 2021 conducted on 10th November 2021.



3. Mr. Deepak participated in TWG international workshop on comprehensive growth through skill enhancement courses where he presented views about our course quality assurance and quality control.(15th september 2022)



4. Ms. Ch. Vyshnavi and S Satya Sriya won a prize in second level of Codethon in an event Informatique, conducted by department of computer science and technology on 20th December 2022





5. Mr. Keshav Tiwari and team of II year IV semester bagged the first prize of the CODEATHON event conducted by Department of Computer Science and engineering on 30th December 2022



6. 17 students from CSCS II year got EC Council certified in Ethical Hackers course conducted on 7th February 2023.



Non technical(co-curricular) Achievement of students

1. Ms. Divyanshi won First prize in Resonance, Loyola Academy for Dance competition conducted on 9th december 2022.



2. Mr. Cyril and team won First prize in Resonance 2022, Loyola Academy for a Drama Competition.



3. Mr. Bharat was awarded best Academic year SD in NCC on 26th January 2023



4. Ms. Divyanshi won second prize in a Fest conducted by CBIT Engineering College for Dance competition conducted on 4th February 2023.



4. Mr. Raghavendra and Mr. Deepak won third prize in Cogniverse, departmental fest, Loyola Academy, conducted by department of Computer science and Cognitive systems.(6th March, 2023)



5. Two cadets of our Loyola Academy , Cadet Eric Johnson & Cadet K S Vepon Kumar, department of CSCS were a part of NCC NAVAL WING ALL INDIA NAU SAINIK CAMP. All India Nau Sainik Camp - 2022 commenced under the aegis of NCC Directorate (AP and T) at NCS, 104 Area, Visakhapatnam on 02 October 2022 with reporting of 612 cadets from all 28 states and 8 union territories participating , representing 17 directorates from which . The camp was formally inaugurated by Air Commodore P Maheshwar, Vayu Medal , Deputy Director General, NCC (AP and T) Directorate, Air Commodore P Maheshwar congratulated cadets for having been selected for the most prestigious Naval NCC camp. The AP&T Directorate secured 1st position among the 17 Directorates .



List of NCC Cadidatates and awards acquired by students in ACSCS 2022 Batch

Name of the student	UID number	Position held
Tanniru jayanth kumar	111722039036	Cadet
Veeragoni Likitha	111722039012	Cadet
Sambangi Rohit Sai Vardhan	111722039034	Cadet
Josh Pravalika pudota	111722039010	Cadet
Manda Sreeja	111722039005	Cadet
V. Phani Markup Reddy	111722039036	NCC

Name of the student	UID number	Name of the event participated	Date	Venue
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Divyanshi Budakoti	111722039002	Solo dance	12/9/2022	Resonance, Loyola Academy
Divyanshi Budakoti	111722039002	Solo dance	2/17/2023	Raw and real geetham engineering College
Navya Rajesh	111722039008	Solo singing	12/6/2022	PG seminar hall,Loyola Academy
Navya Rajesh	111722039008	Debate	12/6/2022	Xaviers hall, Loyola Academy
Navya Rajesh	111722039008	Spell bee	12/3/2022	Xaviers hall, Loyola Academy

**List of NCC Candidates and awards acquired by students in NCSCS
2021 Batch**

Name of the student	UID number	Name of the event participated	Prize won	Date	Venue
B.kalyani	111721039042	Poster making	Third prize	15-08-2022	Loyola academy
B.kalyani	111721039042	Poster making	Third prize	15-08-2022	Loyola academy
Silas Manoah Oinam	111721039033	Fit India 5k run	4th position	24 September 2022	Loyola Academy college
Vadde Raghavendra Reddy	111721039039	Code Gun game	3rd position in python scripting coding	6th march6	Loyola academy
R. V. Harithanjali	111721039009	Reasonance	2nd prize	8th December	Loyola
G.Lohitha	111721039004	INFORM ATIQUE	Given certificate of participation	20/12/2022	LOYOLA HALL
Cyril Nelson Francis	111721039014	Information Security Education Awareness, Project Phase - II Programme by Ministry of Electronics &	CYBER HYGIENE PRACTITIONER	1-3-2023	online

		Information Technology (MeitY) Government of India			
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Name of the Students	UID Number	Name of the Event Participated	Date	Venue	Upload your certificate of participation
Silas Manoh Oinam	111721039033	Fit India 5k run	24 September 2022	Loyola Academy college	https://drive.google.com/open?id=1N_v8AApJcmfCRT_yuEilzwy2S0oQlbH1
G.Lohitha	111721039004	INFORMATIONIQUE	20/12/2022	LOYOLA HALL	https://drive.google.com/open?id=12YZgfZ_TfJ9qWnR-sLA9OWqxYuGo0tKJ

EC Counsel Certificates.

Name as per the certificate	UID	Certificate Number	Please upload your CEH certificates here
Silas Oinam	111721039033	ECC0123864579	https://drive.google.com/open?id=1U4ch2LS9tecS24F6QT2ha2otjPD28P0g
Suram Bharat Kumar Reddy	111721039035	ECC5310278649	https://drive.google.com/open?id=1bf864gF0ywOr2GQ_eOD6_-uX--MbhV-1
Vadde Raghavendra Reddy	111721039039	ECC6729831540	https://drive.google.com/open?id=15MywDDALn5xZrQPsgsP2_sCzB16zzBe_
Priyansh Singh	111721039030	ECC2950347816	https://drive.google.com/open?id=1geZy_ofEocWziJRsn4VjuOdX_2XCUWnE
Harithanjali Rasamala Vishnu Kumar	111721039009	ECC3624517098	https://drive.google.com/open?id=1h7nIE_GceLAcG4QeB5USAngZkSU1otcX

Cyril Nelson Francis	111721039014	ECC0751938426	https://drive.google.com/open?id=1IYvGv0rHvvlclz2zNVyONuBi3pUI9FLG
CEH (Certified Ethical Hacking)	111721039042	ECC1572398046	https://drive.google.com/open?id=18L2BLd2vjryVIuZySXjjUvki0W3nROM1
Pradeep jorrigala	111721039047	ECC2731048695	https://drive.google.com/open?id=1kei6PagmY6NJfozMLUv6-w3KUt5k3ukf

Students Internship certificates

Name of the Student	UID Number	Name of the organisation	Duration	Date	upload your certificate
G.Lohitha	111721039004	AASHMAN FOUNDATION	Three months	12/22/2022	https://drive.google.com/open?id=1dXWyJaRvDfPV7t_BmcIrPW6bbxx-wJ09
Satya Sriya	111721039010	AASHMAN FOUNDATION	Three months	12/22/2022	https://drive.google.com/file/d/1mPsim2ej2zrVnV_6brqlBejmZ5V4bMH/view?usp=share_link

INDUSTRIAL VISIT TO BSNL-RTTC -Batch 2022-23

Our department, B.Sc Computer Science and Cyber Security took an initiative to have an industrial visit to BSNL Regional Telecom Training Centre this year. This was possible only because of the support we got from the lecturers and the principal. Even the cooperation of the students was great. This industrial visit is clearly based on telecommunication domain. We have been to several labs during this visit.



They are--- Switching and transmission lab, Networking lab, Mobile technology lab. In 'Switching and transmission lab', they explained us about the electric devices, conversion of AC power to DC power and they even taught us about heavily working devices and wires which are used for connections. We were even told about the circuit switch technology, also about LRN(Location Routing Number), TDM(Time Division Multiplexing) and LAG(Line Access Gateway). Coming to the 'Networking lab', here we came to know about Broadband and types of connections. There are multiple services provided by BSNL and they even told us about ISP architectures, BNG(Broadband Network Gateway). In the 'Mobile technology lab', we got to know about 'Generations of Mobile technology'; they gave a deep description about every generation which was very impressive. We were even allowed to touch and see the models of the devices and connections over there. My opinion on this Industrial Visit is that we all have enjoyed a lot by viewing and knowing about all the technological components and history of BSNL company. Through that, we all have gained a lot of knowledge which will surely help us in our educational field and job career. So, finally I feel this visit is a worthy and a beneficial one for our department.

PLANET – PROJECTS OF LOYOLA ACADEMY FOR NEIGHBORHOOD, EMPOWERMENT AND TRANSFORMATION

PLANET is a program where every year students from most of the departments of Loyola Academy pay a visit to an orphanage or old-age home or charitable trust. This year we the department of B.Sc. Computer Science and Cyber Security took the initiative to organise this planet program for our department. We visited “the home for

the disabled”, jeera, secunderabad on 22nd february 2023 during the college hours. We departed from college at 10 a.m and reached our destination by 10:40 am. We were accompanied by our planet program incharge Mr. Stephen. As we reached we were asked to have a look at the place, the people and the conditions in which they were living. There were more than 300 people living there with some or the other problem. Some of their mental condition was not good, some of them were physically handicapped while some of them can't even speak properly. There were people of all age groups. After seeing them we can't express that feeling what we went through. It was so painful seeing them in such conditions. After seeing the place we students interacted with them. We met so many new faces. We danced, singed and clicked photos with them. Even after knowing that they have been abandoned by their families or did not have home to go, they now considered that place as their Home and there were so many happy faces as they are a family now. We even visited the church out there. There we were introduced to the Head of the disabled home "Fr. M. Xavier SVO". He described about the place and its history. He emphasized the struggles of those people and shared his views on how the present generation is behaving towards them.

We have served food to them and spent a quality time with them. All of us are emotionally connected with one another. They shared their experiences with us. We became their children for a while. That was never forgettable day in our lives.

We thank our teachers and college for supporting us and making the program successful and also a few other students who played the major role in making the program successful.

We went there as many but returned back one. There was great outcome for us : a positive hope and self-belief can change everything.







CYBERMANIA 1.0

Date:-11-03-2023

Name:- Cyber Mania 1.0

Location:- Loyola Hall

The department of Computer Science and Cyber Security organized their first ever departmental fest CYBERMANIA1.0, at the Loyola Hall, Loyola Academy on 11-03-2023. The event was inaugurated by Rev. Fr. Joseph Kumar SJ, Dr. Rama, IQAC Co-ordinator, Dr. Suchitra Naidu, Dean of Academics, Dr. Anitha Mary Madam, Dean, School of IT and Dr. P.Sushma, HOD, Department of Computer Science and Cyber Security. Rev. Father Joseph Kumar spoke to the gathering about the importance of being up to date in the technology developments. Nearly 200 students were in Attendance. C.H Sandeep Kumar, Dev.ops engineer from HURIX Digital and Miss. Poornima Barik, Cloud four 4 C Networking Engineer were the Chief Guests for the event. Mr. C.H Sandeep Kumar delivered his guest lecture on AWS and its applications. Miss.Poornima Barik delivered her guest lecture on applications of Network Security. The first half of the event was totally focused on technical aspects.

CYBERQUIZZARD a technical event emphasizing on the fundamentals of information technology, received a great response.



CYBERMANIA 1.0



Non-Technical events like ANIMEBUZZ, OUTFITCHECK, HIT THE FLOOR (group and solo) were conducted in the afternoon. All these events received a good response, ANIMEBUZZ was the centre of attraction among these events, all the winners were awarded with exciting cash prizes.

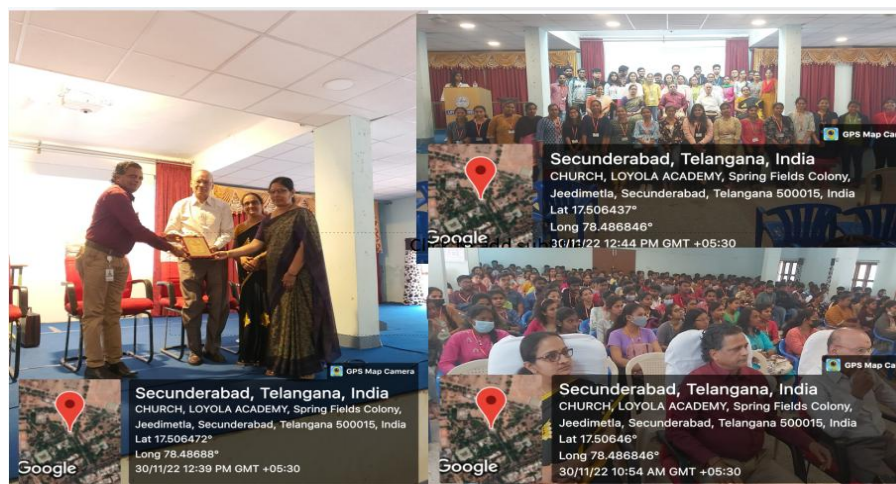
Overall the event was a great success with both technical seminars and non technical event. We thank all the dignitaries, staff, co students for their cooperation and making our event a great success.

A Talk on
“Industry and Software Development” by Mr. P. Ram, CEO,PowerBytes Technologies, Habsiguda.
“Embedded Systems Through Microcontrollers for IoT” by Dr. K. Ramakrishna, Doctorate in GPS Radar Systems, Advisor, PowerBytes Technologies.

Purpose: - To bring awareness among the final year students of School of Informatics, about how to bridge the gap between the Industry and the Academics and remain competitive with the changing software developments .

Report: A Talk on the Industry and Software Development was given by Mr. Ram.P on 30th November 2022 at 10.30 a.m. in the Loyola Hall. He is a Bachelor in Engineering who is an Entrepreneur. He elaborately explained about the industry and software development taking place in today's era of computing. He even enlightened students about how one should have knowledge of different domains and grow horizontally to get good carrier prospects. He spoke on different industrial domains, Healthcare, Telecom, Educational financial, Logistics and Application types. Second session was at 11.45 a.m. in Loyola Hall and its was a hands on work session by Resource Person, Dr. K. Ramakrishna, Doctorate in GPS Radar Systems, Advisor, PowerBytes Technologies. He demonstrated programming of different Micro controllers and explained about their evolution. He associated Embedded Systems through Micro controllers for Internet of Things. Students anxiously involved in the talk and actively participated in the talk by querying resource persons about the adaptability of the micro controllers with latest technologies.

We Thank Rev. Father Dr. L. Joji Reddy garu, Prinicipal, Loyola Academy, for giving us permission to conduct A Talk on International Cyber Security day which was quite beneficial to the students. We thank Dr. Anitha Mary, Dean, School of Informatics, Loyola Academy for constant encouragement and motivation. Special thank to Dr. VijayLakshmi, Dean of Research, Loyola Academy, for encouraging Entrepreneur for sharing their success story.



Review: -Every Student present in the talk where abundantly benefited with the talk and could understand about how one should acquire knowledge on different domains to face the competitive world. Finally, students thanked Mrs. P.Sushma, HOD, Department of Computer Science and Cyber Security for organizing this talk .

FDP on Yoga for Happier living: -

Purpose: - To bring awareness among the faculty about the Yoga practices which can make huge lot of contribution in day to day life by making their lives happier.

Report: - Faculty development program was organized from 7th November 2022 to 11th November 2022 at 2.00 p.m. to 3.30 p.m. in Loyola Hall to bring awareness among the faculty members about how the life can be made happier by proper channelizing of energies and controlling of mind. Rev. Father Dr. L. Joji Reddy garu has given permission to conduct five day FDP to bring this awareness among the faculty members of the Loyola Academy Degree and PG College. It's an IQAC initiative to promote the well being of the faculty members physically, mentally, spiritually and socially. Mrs. P. Sushma, Assistant Professor, Department of Computer Science and Cyber security, Datta Kriya Yoga Teacher, Datta Kriya Yoga International center, Ms. Priya Thakur, Assistant Professor, Department of Strategic management, International Yoga Trainer, Dr. Shashi Kanth, Assistant Professor, Department of Chemical Technology, Yoga trainer, as the Yoga practice session instructors spoke on different issues like importance of daily yoga practise, diet and proper sleep. They encouraged faculty members to practise some basic daily workouts, Pranaymanas to balance, calm down the mind with breathing patterns, Surya namaskaras, Asanas, Mudras to improve ones physical health by balancing the hormonal imbalances. Twenty Five Faculty members actively participated in the Yoga practise session and made this program a great success.

A physically and mentally fit healthy mind can give happy life and also contribute to the healthy environment. Faculty enjoyed participating in the Yoga practise sessions and also enriched their lives with the wisdom of Yoga.



Review: -Every Faculty present in the FDP had a positive impact on their mind and health. They in fact wanted this FDP program to be extended further into daily sessions. With contented mind and healthy body they moved on in their lives for happier living.

P SUSHMA PROFILE



Gender : Female

Date of Joining in Loyola Academy (DD/MM/YYYY) : 01-06-2022

Education Qualification : M.Sc., M. Tech.,
Ph.D.

Faculty Type : Un-Aided

Name of the Department : B.Sc.Computer
Science and
Cyber Security

Designation : HOD

ERP ID No (Staff ID) : 22490

Teaching Experience (in Loyola Academy) : 1 Years

Email – ID (Personal ID) :
polasi.sushma@gmail.com

Positions Held (in Loyola Academy):

(Eg: VP / Dean/ HOD / Director/ Faculty Advisor / Other)

S. No.	Name of the Position	(Period) Duration
1.	Assistant Professor	5 months
2.	HOD	3 months

Positions Held (Outside Loyola):

S. No.	Name of the Position	Organization / Institution	Duration
1.	Lecturer	Priyadarshini degree and PG College,	6 years,
2.	Associate Professor	KRRIIT	4 years,
3.	Lecturer	Vasundara degree and PG college,	3years
4.	Lecturer	Haindavi degree college	5years
5.	Associate Professor	VBIT	3 years

Journal / Articles Published:

S. No	Journal Name	Year	Vol. No.	ISSN No.	Publisher	Place
1.	International Journal of Advance Research in Science and Engineering	2017	06	2319-8354	IJARSE	Hyderabad
2.	Improved algorithmic approach and efficient implementation of Digital information with security using common division method	2021	XCII-XII	0022-3301	The journal of oriental research madras	Madras
3.	Techniques and Limitations in Securing the Log Files to Enhance Network Security and Monitoring	2021	Volume: 64 Issue: 2	0038-111X	Scopus Indexed	US
4.	Armstrong Number Encryption Standard for	2022	Vol-12, Issue-12, No. 03, December	2347-7180	Dogo Rangsang Research	Delhi

	Smart devices - An IoT based Encryption Algorithm		2022		Journal	
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**Conference/Seminar/Workshop/ Training Programme attended (last five years) -
Academic & General :**

S.No.	Theme	Place	International/National / State level	Year	Resource Person / Paper Presentation / Participation
1.	IoT applications and security	Hyderabad	National	2017	Paper Presentation
2.	Setback to comeback	Bangalore	National workshop	2020	Participation
3.	Yoga -A science of breath and meditation for subtle energy channeling	Hyderabad	National workshop	2020	Participation
4.	Global webinar series on cybr security	Vizianagaram	International	2020	Participation
5.	Social network analysis through NodeXL	Hyderabad	Webinar- National	2020	Participation
6.	Blockchain security and smart contracts	Vijayawada	FDP National	2020	Participation
7.	IoT	Kattankullatur	National	2020	Participation
8.	Cybersecurity and	Hyderabad	International workshop	2020	Participation

	Ethical hacking	bad			
9.	IoT	Hyderabad	FDP	2020	Participation
10.	IECACT	Hyderabad	International/	2020	Paper Presentation
11.	Basics of Business analytics	Hyderabad	National	2022	Participation
12.	Mastering data science with python	Hyderabad	FDP	2022	Participation
13.	IMCOET	Secunderabad	International	2022	Paper Presentation
14.	Research and Project development statistical techniques	Hyderabad	National	2023	Participation
15.	Pedagogical Innovation in Higher Education	Hyderabad	National level FEP	2023	Participation

K. SRINIVAS RAO PROFILE

Gender : Male
Date of Joining in Loyola Academy (DD/MM/YYYY) : 01/06/2022
Education Qualification : MCA
Faculty Type : Unaided



Name of the Department and security : Computer science cyber

Designation : Asst professor

ERP ID No (Staff ID) : 22136

Teaching Experience (in Loyola Academy) : 1 year

Email – ID (Personal ID) : srinivasrao.kunchala@loyolaacademy.edu.in

Positions Held (in Loyola Academy):

(Eg: VP / Dean/ HOD / Director/ Faculty Advisor / Other)

S. No.	Name of the Position	(Period) Duration
1.	Faculty	1 year

Positions Held (Outside Loyola):

S. No.	Name of the Position	Organization / Institution	Duration
1.	Asst professor	LFDC	2years
2.	Asst professor	Vasundara degree college	3years
3.	Asst professor	SRK Degree and PG college	3years
4.	Asst professor	Manjeera degree and pg college	3years

Books Published:

S. No.	Title	Year	Publisher	Place
1.	“Role of LMS in Engaging Interest Among Students and Tracking their Learning Curve ” of published book entitled “Environmental Challenges and Global Perspective”	2022	AkiNik Publications	Delhi

Journal / Articles Published:

S. No	Journal Name	Year	Vol. No.	ISSN No.	Publisher	Place
1.	AUTOMATE DATA	2022	Vol-12, Issue-12,	2347-	Dogo Rangsang	Hyderab

	COLLECTION OF THE EXAMINATION RESULTS IN AFFILIATED COLLEGES USING WEB SCRAPING TECHNIQUES		No. 03	7180	Research Journal UGC Care Group I Journal	ad
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Conference/Seminar/Workshop/ Training Programme attended (last five years) - Academic & General :

S.No.	Theme	Place	International/National / State level	Year	Resource Person / Paper Presentation / Participation
1.	Crash course	Online	National	2020	Resource person
2.	Two day Seminar on cybersecurity	JNTUH	National	2022	Participation