

RajaRajeswari College of Engineering



(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi) #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074

Department of Computer Science and Engineering

Report on Cyber security Challenges and it's Applications

NAME OF THE DEPARTMENT: Computer Science and Engineering

1. Type of Event : **5 DAYS STUDENTS DEVELOPMENT PROGRAM**

2. Resource Person : Mr. Gajendra Deshpande

Managing Director

EyeSec Cyber Security Solution Pvt Ltd Belgaum.

4. Date of the programme : $16^{th} - 20^{th}$ May 2023

5. Faculty Co Ordinator: VM. Saravana Perumal,

Assistant Professor

Department of Computer Science and Engineering

RajaRajeswari College of Engineering

Bengaluru 560074

Megha.L,

Assistant Professor

Department of Computer Science and Engineering

RajaRajeswari College of Engineering

Bengaluru 560074

Mrs.HemaVathi.J, Assistant Professor

Department of Computer Science and Engineering

RajaRajeswari College of Engineering

Bengaluru 560074

6. Students attended: 6th Semester of Computer Science and Engineering

7. Outcome of the programme:

Students gained information about the following:

- 1. Protecting the Confidentiality of data
- 2. Preserving the Integrity of data
- 3. Restricting the Availability of data only to authorized users.
- 4. Pinning down potential threats.
- 5. Determining the method of security guards for each threat
- 6. Monitoring any breaching activities and managing data at rest and data in motion.

Email Id:rrcecse@gmail.com https://www.rrce.org



RAJARAJESWARI COLLEGE OF ENGINEERING

Ramohalli Cross, Kumbalgodu, Bangalore. Ph. No :080-28437124, 28437375 Fax:080-28437373 Department of Computer Science & Engineering (Accredited by NBA,NAAC)







Chief Patrons:

Sri.A.C. Shanumugam

(Chairman, RR Group of Institutions)

Sri. A.C. S. Arunkumar

(Vice Chairman, RR Group of Institutions)

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Sri. S.Jeyabalan

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(Principal, RRCE)

Dr. J. Amutharaj

(Professor & Vice Principal, RRCE)

Organizing Secretary:

Dr. S Usha

(HOD/CSE & Dean -R&I)

Program Coordinator:

Mrs. Megha L

(Asst. Professor-CSE)

Mr. VM. Saravanaperumal

(Asst.Professor-CSE)

Mrs. Hemavathi J

(Asst. Professor-CSE)

Invitation For

5 DAYS Student Development Program

"Cyber security

Challenges and it's Applications "

(16/05/2023 to 20/05/2023)

Venue: 5th Floor CSE SEMINAR HALL

Time: 09:00 am to 3:30 pm



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Department of Computer Science and Engineering

Invitation of the Cyber security Challenges and it's Applications





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Department of Computer Science and Engineering

Schedules

Day 1	Module 1									
Duy 1	What is Cyber security? Essential Terminologies, OSI Reference model, Types of Cyber-attacks, Attack vectors, CIA Triad, Ethical Hacking Essentials,									
	Stages of hacking, Types of Hacker, Cyber Laws and standards									
	Module 2 Kali Linux Installation, Basics overview, with Kali Linux, Basic Linux commands, Directory commands, File commands, File access commands,									
	Module 3 Tor Browser, Dark web, Deep web, surface web vs Dark web									
Day 2	Module 4 IP address, Types of IP address, MAC address, Types of MAC address, VPN, VPN working, Proxy server, spoofing,									
	Module 5 Information gathering, Types of information gathering, Footprinting and reconnaissance, outcome of footprinting, Familiarization of various informationgathering tools, Art of googling (Google advanced search operators)									
	Module 6 Networking Basics, TCP and UDP, Important port numbers, network mapping,									
Day 3	Module 7 Malware analysis and source code review									
	Module 8 Types of website attacks, Website penetration testing, web application analysis, burp suite, OWASP top 10, OWASP ZAP									
	Module 9 Information security middleware applications									
Day 4	Module 10 Ransomwares, detection and prevention playbooks									
	Module 11 Cryptography: breaking ciphers, computation over encrypted data									
	Module 12 Windows and Linux system internals									
Day 5 (Online)	Careers, Certification programs, Communities, Hackathon Problems, Table top exercises and Playbooks,									

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Students Development Program on Cyber security Challenges and it's Applications





Gajendra Deshpande

Projects Live Project: Learn Julia with Three Small Projects (2021)

Manning Publishers, USA

Role: Live Project Implementer and Reviewer

Inventing Curriculum using Pointer-Generator Network(2020)

Supported by Google Cloud under GCP Research Credits Program with a Grant of \$5000

Role: Principal Investigator

COVID-19 Research Information Analysis and QA System (2020)

Supported by Hub for Good Program, DigitalOcean, USA

Role: Principal Investigator

Platform to support SSLC and PUC Students in India (2020)

Supported by Hub for Good Program, DigitalOcean, USA

Role: Principal Investigator

Eyewriter

Funded by New Age Incubation Network, Government of Karnataka (2.6 lakhs)

Role: Mentor

Websites for KLS and its institutions, Belagavi (2020)

Contract of revamping 14 websites

Role: Project Manager

Website for KLS Gogte Institute of Technology, Belagavi (2015-Present)

Role: Website Designer and Administrator

Website for Belagavi Bar Association (2019-Present)

Role: Consultant

Websites for KLS and its institutions (2013)

Role: Single point of contact between KLS and DotCord IT Solutions

Websites for Gayatri Bhavan Belagavi, Raja Studio, Kids Dentist Bangalore, Sangram

Kulkarni, Sestoauto.com

Role: freelancer

Experience Founder and Managing Director (Since October 2021)

Eyesec Cyber Security Solutions Private Limited

Co-Founder and Director (June 2015 – June 2017)

Sestoauto Networks Private Limited

Education	Advanced Diploma in Cyber Security and Data Protection Laws (Pursuing) NALSAR University of Law, Hyderabad									
	Post Graduate Diploma in Cyber Law and Cyber Forensics [2020] National Law School of India University, Bangalore, India Dissertation: Legal Possibility of Regulation of Artificial Intelligence									
	M.Tech. in Computer Science and Engineering [2013] KLS Gogte Institute of Technology, Belagavi, India Dissertation: Modeling and Mitigation of XPath Injection Attacks for Web Services Using Modular Neural Networks									
	B.E. in Computer Science and Engineering (2008) KLS Gogte Institute of Technology, Belagavi, India Percentage: 65.90%									
	Diploma in Information Science (2004) KLS Shri Vasantrao Potdar Polytechnic, Belagavi, India Percentage: 70.71% (4 th Rank to Karnataka State)									
Certifications	ISAC Cyber Crime Intervention Officer GitHub Certified Campus Advisor									
Technical Skills	Python, Julia, LAMP Stack, WordPress									
Academic Alliance	AWS Academy – Accredited Instructor and Central Point of Contact UiPath - Coordinator and Educator GitHub - Administrator and Campus Advisor Hack The Box – Central Point of Contact									
Workshop Presentations	 22-31, December-2021, "Basic Web Designing Workshop", Eyesec Cyber Security Solutions, Belagavi, Online 									
	 16,17-December-2021, "Hands-on Workshop on Cyber Security", Angadi Institute o Technology and Management, Belagavi, India 									
	 17-September-2021, "IndicNLP: Natural Language Processing for Indian Languages" a PyCon India 2021 									
	4. 7-April-2021, "Applications of Python in Data Science", KLS IMER, Belagavi									
	 19-March-2021, "IndicNLP: Natural Language Processing for Indian Languages" FOSSASIA 2021, Virtual 									

- 6. 10-January-2021, "Python for Geo-Science: An Emerging Tool for Geo Scientists", organized by Geo-Alumni and Department of Studies in Geology, Karnatak University Dhardwad India, Online
- 7. 19-December-2020, "IndicNLP: Natural Language Processing for Indian Languages using Python", SciPy India 2020, IIT Bombay, Online
- 8. 21,22-July-2020, Resource person for two day online Faculty Development Program on "Introduction to Julia Language",
- 7,8-May-2020, Resource person for four day workshop on "Introduction to Python Programming and its Applications in Climate Smart Agriculture", organized by ICAR-National Agricultural Higher Education Project (NAHEP), The Centre for Advanced Agricultural Science and Technology (CAAST), for Climate Smart Agriculture and Water Management (CSAWM) & The Rashtriya Krishi Vikas Yojana (RKVY) Project on Irrigation Water Requirement Advisory Service (IWRAS), Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri-413722, Ahmednagar (Maharashtra)
- 10. 27-February-2020, Resource person for one day workshop on "Web Programming using Perl", GSS College, Belagavi
- 11. 3-October-2019, Resource person for one day workshop, "Python Programming", GSS College, Belagavi
- 12. 24-January-2017, Resource person for one day workshop, "Network Programming", GSS College, Belagavi
- 13. 24-September-2013, Resource person for one day workshop, "Essence of Software Project Development Life Cycle", KLS GIT Belagavi
- 14. 8-January-2013, Resource person for Continuing Education Programme conducted for PWD employees on "Search Engines, Web Browsers and Social Networking" at KLS Gogte Institute of Technology, Belagavi
- 15. 31-March, 1-April-2012, Resource person for two-day workshop, "HTML5", KLS GIT, Belagavi
- 16. Resource person for one day workshop "Web Programming, IDE and Tools", KLS GIT, Belagavi
- 17. Resource person for GATE 2013 training programme, "Web Programming", KLS GIT, Belagavi

Conference Presentations

18. Resource person for one day workshop, "Web Hosting", KLS GIT Belagavi
Deshpande G., Kulkarni S. (2019) Modeling and Mitigation of XPath Injection Attacks for
Web Services Using Modular Neural Networks. In: Sa P., Bakshi S., Hatzilygeroudis I., Sahoo
M. (eds) Recent Findings in Intelligent Computing Techniques. Advances in Intelligent
Systems and Computing, vol 707. Springer, Singapore. Presented at ICACNI 2017, National

Talk Presentations

1. 7-January-2022, Blockchain and its applications in Engineering, IEEE ATEES Workshop, KLS Gogte Institute of Technology, India, Online

Institute of Technology, Goa, India

- 2. 27-January-2022, Security Considerations in Python Packaging" Python 2022 by Conf42.com, Online
- 3. 5,6-February-2022, Security Considerations in Python Packaging, PyCascades 2022, Online
- 4. 21-25-March-2022, Securing Django Applications, Python Web Conference 2022, Online
- 5. 11-December-2021, "Security Considerations in Python Packaging", Python Pizza Hamburg, Online
- 6. 04-December-2021, "Securing Django Applications", Pyjamas Conf 2021
- 7. 04-December-2021, "Security considerations in Python Packaging", Pyjamas Conf 2021
- 8. 04-December-2021, "Build Your First Cyber Forensic Application using Python", Pyjamas Conf 2021
- 9. 25-November-2021, "Python in Education for Generation Z", XtremePython 2021, Israel, Online
- 10. 20,21-November-2021, "Build Your First Cyber Forensic Application using Python", PyCon APAC 2021, Thailand Online
- 11. 13,14-November-2021, "Python in Education for Generation Z", FOSSCOMM 2021, University of Macedonia, Greece, Online
- 12. 13,14-November-2021, "Multilingual Natural Language Processing using Python", FOSSCOMM 2021, University of Macedonia, Greece, Online
- 13. 13,14-November-2021, "Build Your First Cyber Forensic Application using Python", FOSSCOMM 2021, University of Macedonia, Greece, Online
- 14. 13-November-2021, "Security considerations in Python Packaging", HoneyCON21, Spain, Online
- 15. 28-October-2021, "Multilingual Natural Language Processing using Python", Al DevWorld 2021 Online
- 16. 23-October-2021, "Securing Django Applications", DjangoCon US 2021, USA, Online
- 17. 22-October-2021, "Security Considerations in Python Packaging", PyCon SE 2021, Sweden
- 18. 15-October-2021, "Multilingual Natural Language Processing using Python", PyCon JP 2021, Japan
- 19. 09-October-2021, "Securing Django Applications", PyCon HK 2021, Hong Kong Online

- 20. 07-October-2021, "Build Your First Cyber Forensic Application using Python", PyCon ZA 2021, South Africa
- 21. 02-October-2021, "Build Your First Cyber Forensic Application using Python", PyCon TW 2021, Taiwan, Online
- 22. 02-October-2021, "Securing Django Applications", PyGotham TV 2021, USA, Online
- 23. 10-September-2021, "Time Series Forecasting Techniques in Python", PyCon AU 2021, Australia
- 24. 31-July-2021, "Python and FOSS in Education for Generation Z", COSCUP Taiwan
- 25. 28,29,30-July-2021, "Build Your First Cyber Forensic Application using Python", EuroPython 2021, Online
- 26. 28,29,30-July-2021, "Multilingual Natural Language Processing using Julia", JuliaCon 2021, Virtual
- 27. 3-July-2021, "Securing Django Applications", Django Congress Japan 2021, Online
- 28. 25,26-June-2021, "Python and FOSS in Education for Generation Z", esLibre 2021, Online
- 29. 29,30-June-2021, "Build your First Cyber Forensic Application using Python", Geekle's Cyber Security Global Summit 2021, online
- 30. 19-June-2021, "Multilingual Natural Language Processing using Python", PyCon Colombia 2021, Online
- 31. 18-June-201, "Securing Django Applications", PyCon Namibia 2021, online
- 32. 04-June-2021, "Securing Django Applications", DjangoCon Europe 2021, Online
- 33. 27-05-2021, "Build your First Cyber Forensic Application using Python", Conf42 Python 2021, Online
- 34. 25-March-2021, "Roadmap to Become Data Analyst and Data Scientist", Acharya Institute of Technology, Bengaluru,
- 35. 6-7, February 2021, "Inventing Curriculum using Python and spaCy", FOSDEM 2021, Virtual
- 36. 30-January-2021, "IndicNLP: Natural Language Processing for Indian Languages", BelPy 2021, Virtual
- 37. 18-January-2021, "How Companies are using Artificial Intelligence to Solve Problems", KLS IMER Belagavi, India
- 38. 20-December-2020, "Python and FOSS in Education for Generation Z", SciPy India 2020, IIT Bombay, Online

- 39. 15-December-2020, "Investigating Digital Crimes using Python", PyCon Tanzania 2020, Online
- 40. 12-December-2020, "Investigating Digital Crimes using Python", PyDay BCN 2020, Online
- 41. 6-December, 2020, "Python and FOSS in Education for Generation Z", PyConf Hyderabad 2020 Virtual
- 42. 5-December-2020, "Investigating Digital Crimes using Python", Pyjamas 2020 Online
- 43. 19-November-2020, "Python and FOSS in Education for Generation Z", Geekle's python Universe WEB Edition Global Summit
- 44. 19-November-2020, "Investigating Digital Crimes using Python", Geekle's python Universe WEB Edition Global Summit
- 45. 15-November-2020, "Inventing Curriculum using Python and spaCy", PyData Global 2020 Online
- 46. 14-November-2020, "Python and FOSS in Education for Generation Z", PyCon Indonesia 2020 Online
- 47. 8-November-2020, "Investigating Digital Crimes in Smart Cities using Python", HoneyCon 2020 Online, Spain
- 48. 4,5-November-2020, "Be Safe on Cyber Space", KLS Gogte Institute of Technology, India Part-1 Part-2 Slides
- 49. 03-October-2020, "Investigating Digital Crimes using Python ", PyCon ES 2020 Pandemic Edition Slides
- 50. 26-September-2020, "Python and FOSS in Education for Generation Z", PyCon Korea 2020, online, Korea Slides
- 51. 19-September-2020, "Investigating Digital Crimes using Python", GirlScript Summit India 2020 Slides
- 52. 15-September-2020, "Building LinkedIn and GitHub Profiles for Better Career Opportunities", CSI Student Branch -GIT, Belagavi Slides
- 53. 05-September-2020, "Computation Techniques for Encrypted Data using Python", PyCon TW 2020, Taiwan Slides
- 54. 04-September-2020, "Deceptive Security using Python", PyCon AU 2020 Online, Australia Slides
- 55. 20-August-2020, "Julia: An Introduction to new age programming language" at Vidya Vardhak College of Engineering, MySuru, India
- 56. 07-August-2020, "Deceptive Security using Python", PyCon Africa 2020, online, Africa Slides

- 57. 06-August-2020, "Deceptive Security using Python", PiterPy online 2020, Russia Slides
- 58. 1-August-2020, "Deceptive Security using Python", Conference on Open Source Coders Users and Promoters COSCUP 2020 online, Taiwan (Good quality local recording) Slides
- 59. 1-August-2020, "Inventing Curriculum with Julia and Pointer-Generator Network", Conference on Open Source Coders Users and Promoters COSCUP 2020 online, Taiwan (Good quality local recording) Slides
- 60. 1-August-2020, "Julia Code Generator for Flowgorithm Flow Chart Interpreter", Conference on Open Source Coders Users and Promoters COSCUP 2020 online, Taiwan (Good quality local recording Part 1 Part 2)
- 61. 30-July-2020, "Inventing Curriculum with Julia and Pointer-Generator Network", JuliaCon 2020 online, Portugal Slides
- 62. 24-July-2020, "Deceptive Security using Python", EuroPython 2020 Online, Ireland Slides
- 63. 24-July-2020, "What Makes a Website Look Professional", IEEE-GIT, India Slides
- 64. 12-June-2020, "Cyber Security: Technologies and Academic Opportunities", organized by Karnataka Science and Technology Academy, Department of Science and Technology, Government of Karnataka, India (Starts at 1:04:35) Slides
- 65. 10-May-2020, "Deceptive Security using Python", PyCon HK 2020, Hong Kong (Online)
- 66. 25-February-2020, "How to Make Contribution to Python Community", at Python Open Discussion Forum, organized jointly by PyData Belagavi and International Society for Automation Student Club, KLS GIT, Belagavi
- 67. 2-November-2019, "Computation Techniques for Encrypted Data", PyCon FR 2019, University of Bordeaux, France Slides
- 68. 20-September-2019, "Free and Open Source Software", Hirasugar Institute of Technology, Belagavi Slides
- 69. 22-December-2018, "Implementation of Multi Agent System for Computation over Cipher Text for Internet of Things", Scipy India 2018, Indian Institute of Technology, Bombay, India Slides
- 70. 8-August-2018, "Brain Computer Interface meets Internet of Things", JuliaCon 2018, University College, London, UK
- 71. 30-November-2017, "Implementation of Prevention of XPath Injection Attack using PyBRAIN Machine Learning Library", Scipy India 2017, Indian Institute of Technology, Bombay, India Slides
- 72. "Applications of Internet of Things", KLSVPP, Belagavi
- 73. Continuing Education Programme conducted for PWD employees, "Search Engines, Web Browsers and Social Networking", GIT, Belagavi

74. Alumni Meet 2011, "Opportunities in Higher Education", KLSVPP, Belagavi

Poster Presentations

- 1. 14-16, July-2021, "Free and Open-Source Educational Software for Generation Z", CSTA Annual Conference 2021, USA Virtual
- 2. 12-18, July-2021, "Build Your First Cyber Forensic Application using Python", SciPy 2021, Virtual Conference, USA
- 3. 12-18, July-2021, "Multilingual Natural Language Processing using Python", SciPy 2021, Virtual Conference, USA
- 4. 12-18, July-2021, "Inventing Curriculum using Python and spaCy", SciPy 2021, Virtual Conference, USA
- 5. 16-May-2021, "Inventing Curriculum using Python and spaCy", PyCon US 2021, Online
- 19-October-2020, "Inventing Curriculum using Pointer-Generator Network", Artificial Intelligence for Data Discovery and Reuse (AIDR) Symposium 2020 Virtual, Carnegie Mellon University Libraries, USA
- 7. 16 to 21-August- 2020, "Inventing Curriculum using Julia and Pointer-Generator Network", SMILES 2020 Online, Skoltech, Moscow Russia
- 8. 29 to 31-July-2020, "Julia Code Generator for Flowgorithm Flow Chart Interpreter", JuliaCon 2020 Online
- 9. 6 to 12-July-2020, "Computation Techniques for Encrypted Data", Scipy 2020 Virtual Conference, USA
- 10. 13 to 14-February-2020, "Elliptic Curve Analysis for Cryptographic Applications in Internet of Things", ACM India 14th Inter-Research-Institute Student Seminar in Computer Science (IRISS 2020), Indian Institute of Technology, Gandhi Nagar
- 11. 8 to 14-July-2019, "Prepare Your Meal: An Application of Artificial Intelligence in Diabetes Management through Meal Planning", Scipy 2019, University of Texas, Austin, Texas, USA
- 12. 8 to 14-July-2019, "Multi Agent Cognitive Architecture for Secure Computation in Internet of Things", Scipy 2019, University of Texas, Austin, Texas, USA
- 13. 6 to 7-February-2019, "Modeling and mitigation of XPath injection attacks for web services using modular neural networks", ACM India 13th Inter-Research-Institute Student Seminar in Computer Science (IRISS 2019), Kochi, INDIA
- 14. 21-January-2016, "Vedic Mathematics Applied to Elliptic Curve Cryptography", ACM India 10th Inter-Research-Institute Student Seminar in Computer Science (IRISS 2016), Tiruvananthapuram, INDIA

Program Committee Member/Reviewer

Book Publishers: Manning Publications USA, Oxford University Press India, Journals: Journal of Open Source Software (JOSS), Journal of Open Source Education (JOSE) Conferences: PyCon US 2022, 2021, SciPy US 2020 and 2019, JuliaCon 2020, SciPy Japan, FOSSCon India 2019, PyCon India 2021, PyData Global 2020, JupyterCon 2020, Pyjamas 2020, and 2021

Scholarships/ Travel Grants	JuliaCon 2018 and 2020, SciPy 2019, 2020, and 2021, JupyterCon 2020, PyCon France 2019								
Achievements	Mentor for CERN WebFest 2020 (One of Top 7 projects)								
	Mentor for Smart India Hackathon teams (four winning titles since 2017)								
	Mentor for Manthan 2021 National Security Hackathon (Winning team)								
	Judge for Toycathon 2021 Toy Hackathon by MHRD, Govt. of India								
	Top Reviewer Award – SciPy 2020, USA								
	Appreciation from UiPath for institution participation in DevCon 2020								
	Top recruiter for ACM ambassador program for February 2018-2019								
Chapter Lead /	Program Committee Chair – PyCon India 2021								
Organizer	Organizing Co-Chair, FOSSCon India 2019								
	OWASP Belagavi Chapter – Chapter Lead								
	PyData Belagavi Chapter – Chapter Lead								
Membership of	Association Computing Machinery India – Professional Member (7689360)								
Professional	IEEE Professional Member (98204247)								
Bodies	Open Web Application Security Project Foundation – Life Member								
	Computer Society of India – Nominee Member								
	ACM Computer Science Teachers Association – Basic Member								
	Indian Society for Technical Education – Life Member								
	Internet Society – Basic Member								
Volunteer	Interfaith Research Project at Parliament of World's Religions, USA								
	Treasurer, Gangadharrao Deshpande Memorial Committee, Belagavi (2018 – Present)								
	Office Bearer, Past Students Association, B K Model School, Belagavi (2017-19)								
	President, Alumni Association, KLS Shri Vasantrao Potdar Polytechnic (2011-13)								
Links	Website: gcdeshpande.github.io								
	GitHub: github.com/gcdeshpande								
	LinkedIn: https://www.linkedin.com/in/gajendradeshpande								

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7 11	RR20CS148	Meharuk jabeen	dest	Dost	Taber	Chabot	Can	Jab	Taber	Tabour	Taber	FCF
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