

Hindusthan College of Engineering and Technology Department of Information Technology



2020 - 2021

HISTORIA

Volume - 18



Words from the Editor in Chief

"Yesterday's failures are today's seeds that must be diligently

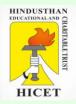
planted to be able to abundantly harvest tomorrow's success"

Hearty Greetings!!! I feel extremely dignified for my supremacy over this department of IT. It has always been a new venture at every juncture. I fulfill my duty of accordance. Our department proudly steps into advancing in learning, teaching and progression. Also I' m hoping to accomplish innovative things in the upcoming year that will bring us together so that we can build a new innovative grass root movements of our department. I endorse my students for their excellence in the platform that we contrived for them.

Besides education, we are navigating our students to participate in Co-Curricular and Extracurricular activities. Also we are encouraging our students to bring out the best in them. Besides placement training classes, we are molding the students of Second and Third year by conducting Communication and Technical Sessions being handled by students of our department itself. Also, I would like to convey my appreciation for the students who got placed in various product companies as well as BPOs. Also, we are sprucing up Industrial Visit to the students in order to make them realize the significance of practical knowledge.

My challenge was to get my department on board with this external invasion. I bring forth my note of gratitude to all the pupils & faculties who allowed me to relish in my duty & leadership. It gives me so much pleasure that I would say our department being notable for its Academics& Innovation. Student should realize that it doesn't matter what they know but what they do with that matters a lot. Go, Run, Cherish and pursue what you want.

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Hindusthan College of Engineering and Technology Department of Information Technology



VISION OF DEPARTMENT

To develop IT Professionals of the best caliber with Entrepreneurship Zeal.

MISSION OF DEPARTMENT

- To establish a best Learning Environment that helps the Students to face the Challenges of IT field.
- To enable the Students to develop Skills for solving Technical Problems and also endorse Collaborative and Multidisciplinary activities.
- To induce Entrepreneurial mindset amongst Students and develop the necessary Skills to meet the Entrepreneurial needs of the Society.

PROGRAM EXECUTION OBJECTIVES(PEOs)

- **PEO1:** Graduates of the program will be proficient in identifying, formulating and solving complex problems by applying their knowledge of mathematics, science and information technology principles.
- **PEO2:** Graduates of the program will be capable of analyzing, designing, implementing and managing software projects through continuous learning and use modern tools to meet real world constraints.
- **PEO3:** Graduates of the program exhibits professionalism with ethical attitude, excellent communication and term spirit to Satisfy society needs.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Able to design and develop software solutions by employing appropriate problem solving strategies ,including Logically thinking ,Create a user interface, Write code to connect a front end user interface with a backend database using a contemporary object-oriented language.

PSO2: Ability to design and develop mobile applications and Web based applications with testing skills which consequently leads to employability and entrepreneurship skills.



Hindusthan College of Engineering and Technology Department of Information Technology

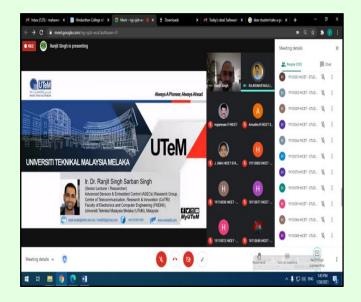


TECHNICAL PROGRAMMES

 One day Virtual Mode Guest Lecture on "Internet of Things and Applications" was conducted on 30th Jan 2021. It was inaugurated by Dr.N.Rajkumar - Head of the Department of Information Technology. The sessions were handled by Dr. Ranjit Singh Sarban Singh, Senior Lecturer Computer Engineering, Faculty of Electronic and Computer Engineering Universiti Teknikal Malaysia Melaka (UTeM) Melaka, Malaysia through Google Meet. The Seminar Focused on the motivation for development of



IOT based projects. Recent days IOT is one of advanced Technology around all over the world and it makes students come out with different ideas related to know about sensors applications. More than 90 students were enlightened with the knowledge of IOT and its applications.







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2. IIC driven workshop on Entrepreneurship Development phases: One day IIC driven workshop on



"Entrepreneurship Development phases" was conducted on 30th JAN 2021. It was inaugurated by Dr.N.Rajkumar- Head of the Department of Information Technology. The sessions were handled by Ms. S. Siva Raghavi, Director Startup Grind, Coimbatore. The main objective of the program is to obtain knowledge and ideas about the startup in various fields such as Aviation, Government policies and to handle the emotional situations with multiple partners. This workshop is also made for to approach various funding agencies and investors to startup the

business. Around 353 students were actively participated and benefited from this program.





3. A Webinar on "Data Visualization"

As a Part of our Data Analytics Club of HICET organized A Webinar on "Data Visualization" on 04.02.2021. It was inaugurated by Dr.N.Rajkumar-Head of the Department of Information Technology. This session were handled by Mr.Vishnu S, Software Technical Trainer, AdroIT Technologies, Coimbatore. The main objective of this webinar to give awareness on resources and tools to help with good data visualization to the students. They were made



to Understand best practices for how when to use data visualization through this webinar. Totally 85 participants were participated from various departments and get benefited.



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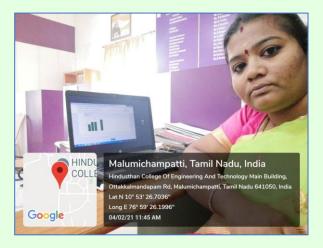


4. Guest Lecture on "Cyber Security and Ethical Hacking "

Guest Lecture on "Cyber Security and Ethical Hacking" was conducted on 26th February 2021. It was inaugurated by Dr.N.Rajkumar - Head of the Department of Information Technology. The sessions were handled by Dr.MohdZaki Bin Mas'ud, Senior Lecturer Department of Computer and Communication System, Faculty of Information and Communication Technology Universiti Teknikal Malaysia Melaka. The Objective of this Guest Lecture is to enhance student knowledge among Discover software bugs that pose Cyber Security threats, explain and recreate exploits of such bugs in realizing a cyber attack on such software, and explain how to fix the bugs to mitigate such threats. More than 100 students were participated in this event.







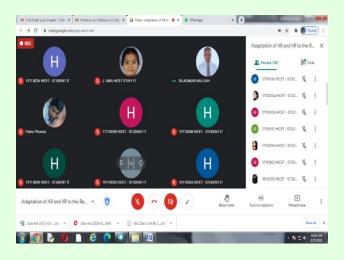


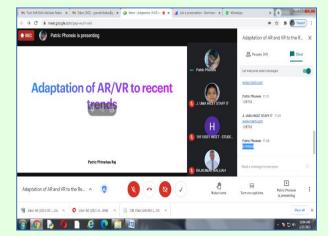




5. Webinar entitled "Adaptation of Augmented Reality and Virtual Reality to Recent Trends"

IEI Club of HICET organized A Webinar entitled "Adaptation of Augmented Reality and Virtual Reality to Recent Trends" on 27.02.2021. It was inaugurated by Dr.N.Rajkumar - Head of the Department of Information Technology. This session was delivered by the Resource Person "Mr. Patric Phinehas Raj, Associate Software Engineer at Robert Bosch Pvt Ltd., Coimbatore. Through this Webinar the Participants gained knowledge in Augmented Reality and its applications in various Field of Medical Science and in other Technologies. The Resource Person also narrated the significance of Virtual Reality and its recent trends in the Field of IT. Around 75 Participants were got benefited out of this IEI Sponsored Event from various Department of HICET.









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PUBLICATIONS IN NATIONAL / INTERNATIONAL JOURNAL

S.No	Name of the Authors	Name of the Journal	Title of the paper, Volume No, Issue No, Page No, Month and Year
1	Dr Rajkumar N	International Journal of Ambient Intelligence and Humanized Computing (Springer)	Improved Local Fisher Discriminant Analysis based Dimensionality Detection for Cancer Disease Prediction, Vol. 12, PP. 8083–8098, Sep 2020.
2	Dr Gomathi B	International Journal of Computers, Materials & Continua	Monarch Butterfly Optimization for Reliable Scheduling in Cloud, Vol.69, Iss. 03, pp. 3693- 3710, 2021
3		International Journal of Advanced Research in Engineering and Technology	N-Semi Regular Graph-Based Fuzzy Semi- Supervised Learning approach for Fault Detection and Classification in Photovoltaic arrays, Vol .11, Issue 9, Pg. 887-896, Sep 2020.
4	Mr Ganesan M	Turkish Online Journal of Qualitative Inquiry	Accurate Retrieval of High Utility Item Sets From The Transactional Database To Support Service Oriented Computing, Vol.12, Iss. 03, pp. 4251- 4265, 2021
5	Ms Revathi P	Zeichen Journal	IOT Enabled Air Pollution Monitoring System with Digital Dashboard on Smart Phone, Vol 06, Issue. 10, Sep 2020
6	Ms Indirani M	Inventive Computation and Information Technologies, Lecture Notes in Networks and Systems	Spatiotemporal Particle Swarm Optimization with Incremental Deep Learning-Based Salient Multiple Object Detection, Vol. 173, pp. 831-850, March 2021
7	Mahaveerakannan R	The International journal of analytical and experimental modal analysis	Load Distributed Energy-Efficient Clustering Based Hierarchical Routing Protocol for Military Applications, Vol. 25, Issue. 05, 3887-3896, May 2021.
8		Annals of the Romanian Society for Cell Biology	A Review: Smart Farming Using IOT in the Area of Crop Monitoring, DOI: 10.1007/978-981-33-4305- 4, March 2021



9	Mahaveerakannan R	Inventive Computation and Information Technologies Part of the Lecture Notes in Networks and Systems book series	A Heuristic Algorithm for Deadline-Based Resource Allocation in Cloud Using Modified Fish Swarm Algorithm, Dol. 10.1007/978-981-33-4305- 4, March 2021.
10		Inventive Computation and Information Technologies	Improved Density-Based Learning to Cluster for User Web Log in Data Mining, https://doi.org/10.1007/978-981-33-4305-4_59, pp. 813-830, March 2021
11	Ms P Anitha Ms K Kavitha	Annals of the Romanian Society for Cell Biology	A Review: Smart Farming Using IOT in the Area of Crop Monitoring, Vol.25, Issue. 05, pp. 3887-3896, March 2021
12	Ms Uma J	Inventive Computation and Information Technologies Part of the Lecture Notes in Networks and Systems book series	A Heuristic Algorithm for Deadline-Based Resource Allocation in Cloud Using Modified Fish Swarm Algorithm, Dol: 10.1007/978-981-33-4305- 4, March 2021.
13	Mr S Karthic	Annals of The Romanian Society For Cell Biology	A Hybrid SVM-LDA based Heuristic Method for Dimensionality Reduction in Cancer Detection using Genetic Algorithms, Vol 25, Issue. 04, pp. 4410-4419, April 2021
14	Ms T Sakthi Sree	Journal of Physics: Conference Series	A Secure Digital e-Voting using Blockchain Technology, Vol.19, pp. 1-13, March 2021
15	Ms P KaviyaPriya	International Journal of Advanced Engineering Science and Information Technology	An Efficient Elliptic Curve Strategy For Secure Medium Communication, Vol. 02, pp. 148-152, April 2021.
16		Annals of the Romanian Society for Cell Biology	A Review: Smart Farming Using IOT in the Area of Crop Monitoring, vol.25, Iss. 05, pp. 3887-3896, May 2021.
17	Mr M Sathishkumar	International Journal of Advanced Engineering Science and Information Technology	An Efficient Elliptic Curve Strategy For Secure Medium Communication, Vol. 04, Iss. 04, pp. 148- 152, April 2021



		International journal of	
		advanced research in	Location Based Alarm System Depending on
18		computer and	Longitude and Latitude, Vol.10, Iss. 05, pp. 213-
		communication	216, 2021
	Ms R Amudha	Engineering	
		International journal of	
19		advanced research in	All in one secure E-commerce website, Vol. 10, Iss.
19		computer and	05, pp. 207-212, 2021
		communication Engg.	
		Annals of the Romanian	A Review: Smart Farming Using IOT in the Area of
20	Ms K Komal Devi	Society for Cell Biology	Crop Monitoring, vol.25, Iss.05, pp. 3887-3896,
		Society for Cell Biology	May 2021.

INTERNATIONAL / NATIONAL CONFERENCES

Sno	Name of the Authors	Name of the Conference, Venue and Date	Title of the paper
1	Ms Indirani M	International Virtual Conference on Innovations in Science and Technology (IVCIST-2021), Nehruartsand Science College, May 31,2021	Secure Two Party Differential data for Vertically Partitioned Data

PATENTS FILED/PUBLISHED/GRANTED BY FACULTY MEMBERS

S.No	Name of the Authors	Title of Invention	Application No	Status	Date of Published/ Filed
1	Dr.N.Rajkumar	A System and Method for Traffic Surveillance to Identify Moving and Stationary Vehicles in Real Time	202041053378	Published	18/12/2020
2	Dr.D.Rasi Ms.M.Indirani	Improvements to CLONALG Algorithm and their comparisons on the Diagnosis of Breast Cancer	202141015545	Published	23/04/2021



3	R.Mahaveerakannan	A Smart Non-Contact Sanitizer Dispenser Hand Glove	202141017899	Published	23/04/2021
4	Ms.T.SakthiSree Ms.P.Kaviyapriya Mr.M.Sathish Kumar	Artificial Intelligence Based Construction of Mechanically Developed Machine Motion Prediction System to Reduce Worksite Hazards	202141024097	Published	11/06/2021

FACULTY PARTICIPATION IN INDUSTRY TRAINING

S.No	Name Of The Faculty	Event	Title	Organized By	Held On
1.	Mr C. Gokul	FDP	Android Development with Kotlin	Google Developer	01-06 Mar 2021
2.	Ms.P.Anitha	FDP	Android Development with Kotlin	Google Developer	01-06 Mar 2021







Hindusthan College of Engineering and Technology Department of Information Technology

IST OF STUDENTS WHO UNDERGONE IMPLANT/INTERNSHIP TRAINING

S.No	Name	Name of Organization	Trained on	Period
1	Akalya R			
2	Chandru R	-		
3	Mahalakshmi C			
4	Priyanka B			
5	Shiny Mary G		Undergoing	
6	Sri Vishnu R		(Part Time)	
7	Varsha C			_
8	Vidhyarohini S	New Gen		6 Months
9	Sanchana G S			Wortens
10	Moun Prasath R			
11	Bindhiya T			
12	Guru Akash S			
13	Karthikeyini R		Undergoing	
14	Ranjithkumar M		(Full Time)	
15	Vishnu Priya.B			





Hindusthan College of Engineering and Technology Department of Information Technology

WORKSHOPS ATTENDED BY STUDENTS

S.No.	Class/Sem	Name of the Student	Name of the Workshop	Venue (Online Mode)	Date
1.	IV/VIII	V.Avinash	Agri Entrepreneurship Drones	Mohamed Sathak AJ College of Engineering Chennai	Dec 23 rd 2020
2.	II/IV	R.Akalya	Technology Trends 2021	U Can Solution Student Education Centre	Jan 10 th 2021
3.	III/VI	R.Santhosh	Problem Solving and Ideation	Hindusthan College of Engineering and Technology	Jan 18 th 2021
4.	II / IV	N.Charan	Higher Education and Career opportunities in Abroad	Hindusthan College of Engineering and Technology	Jan 20 th 2021
5.	II / IV	C.Varsha	Higher Education and Career opportunities in Abroad	Hindusthan College of Engineering and Technology	Jan 20 th 2021
6.	II / IV	C.Varsha	Adaptation Augmented Reality Vs Virtual Reality to recent Trends	Hindusthan College of Engineering and Technology	Feb 27 th 2021
7.	II / IV	V.Sandeepkumar	Language, Data and Knowledge Extraction	Department of Computer Science and Department of Linguistics, University of Kerala	March 22 nd -24 th 2021
8.	II / IV	V.Sandeepkumar	Arduino	Kakatiya Institute of Technology and Science	May 30 th 2021
9.	II / IV	C.Varsha	Arduino	Kakatiya Institute of Technology and Science	May 30 th 2021





Hindusthan College of Engineering and Technology Department of Information Technology

EVENTS ATTENDED BY STUDENTS

S.No.	Class/Sem	Name of the Student	Name of the Event	Venue (Online Mode)	Date	Prize
1.	III / IV	V.Sandeep Kumar	E - Quiz	Hindusthan College of Engineering and Technology	Dec 22 nd 2020	Participated
2.	III / IV	V.Sandeep Kumar	E - Quiz	Hindusthan College of Engineering and Technology	Jan 26 th 2021	Participated
3.	II / IV	V.Sandeep Kumar	E – Quiz on Research	Sri Krishna Adithya College of Arts and Science	Feb 2 nd 2021	76% score
4.	III / IV	C.Varsha	RIDE YOUR QUERY	Coimbatore Institute of Technology	May 3 rd 2021	Third
5.	III / IV	C.Varsha	Bug Buster	Coimbatore Institute of Technology	May 3 rd 2021	Third
6.	III / IV	C.Varsha	Fun Fiesta	Coimbatore Institute of Technology	May 3 rd 2021	Second
7.	III / IV	C.Varsha	Coding Contest	Coimbatore Institute of Technology	May 3 rd 2021	Participated





Hindusthan College of Engineering and Technology Department of Information Technology

NATIONAL LEVEL CHALLENGES 'TOYCATHON 2021'

S. No	Class/Sem	Name of the Student	Name of the Event	Name of the programme and Venue	Date	Prize	
1		G.Lakshmana	Toycathon	Ministry of Education in	June 22-	participated	
1	III / V	Kumar	TOycathon	collaboration with AICTE	24 2021	participateu	
2		J.Abdul	Toycathon	Ministry of Education in	June 22-	participated	
Z	III / V	Kareem	TOycathon	collaboration with AICTE	24 2021	participated	
3		S.Avinesh	Toycathon	Ministry of Education in	June 22-	participated	
5	III / V	5.Avinesh	TOycathon	collaboration with AICTE	24 2021	participateu	
4		N.Charan	Toycathon	Ministry of Education in	June 22-	participated	
4	III / V	N.Charan	Toycathon	collaboration with AICTE	24 2021	participated	
5		J.Gerald Ruban	Toycathon	Ministry of Education in	June 22-	participatod	
5	III / V		TOycathon	collaboration with AICTE	24 2021	participated	





PARTICIPATION OF FACULTY IN WORKSHOPS/FDP/SEMINAR/STTPs

S.NO	NAME OF THE FACULTY	EVENT	TITLE	ORGANIZED BY	HELD ON
1.		E-Quiz	Cyber Security	Sri Ramakrishna College of Arts and Science, Coimbatore	04.12.2020
2.	Dr. D. Rasi	Workshop	Two days Workshop on Intellectual Properties Right(IPR) Emphasis on Patents, Trademarks & Copyrights	Hindusthan College of Engineering and Technology, Coimbatore	10.12.2020 - 12.12.2020
3.		ATAL FDP	Robotics	Ramrao Adik Institute of Technology, Maharashtra	14.12.2020 to 18.12.2020
4.		AICTE STTP	Challenges and Opportunities in Implementing IoT and Machine Learning for Smart Grid Distribution Systems	Kongunadu College of Engineering and Technology, Namakkal	18.01.2021 to 23.01.2021
5.	Dr. B. Gomathi	ATAL-FDP	Internet of Things (IoT)	National Institute of Technology Puducherry	26.12.2020 to 30.12.2020
6		Workshop	Intellectual Property Rights(IPR) emphasis on patents trademark filling	Hindusthan College of Engineering and Technology	10-12-2020 to 11-12-2020
7	Ms.M.Indirani	STTP	"Challenges and Opportunities in Implementing IoT and Machine Learning for Smart Grid Distribution System	Kongunadu College of Engineering and Technology, Thottiam, Trichy	18.01.2021 to 23.01.2021
8		FDP	Kalam Program for IP Literacy and Awarness	Ministry of Education's Innovation Cell	15.10.2020 to 23.10.2020
9	Ms.N.Yamuna STTP Generation Sequencing K.S.Rangasamy Co		K.S.Rangasamy College of Technology	21-12-2020 to 26-12-2020	





Hindusthan College of Engineering and Technology Department of Information Technology

10	Ms.P.Revathi	Seminar	Crack Data Science with Machine Learning	P.A.College of Engineering and Technology	10.2.2021
11		FDP	Internet of Things and Applications in 5 G	Easwri Engineering College,Chennai	5.1.2021 TO 9.1.2021
12		FDP	Breakthrough Future Technologies	Easwri Engineering College,Chennai	16.12.2020 to 18.12.2020
13		FDP	Effective Strategies to improve Mentor- Mentee bonding	Easwari Engineering College,Chennai	20.1.21 to 22.1.2021
14		FDP	NPTEL-AICTE FDP on Fundamentals of Artificial Intelligence	AICTE	Sep-Dec 2020
15	- Mr.C.D PremKumar	NPTEL-FDP	Fundamentals Of Artificial Intelligence	AICTE	SEP-DEC 2020
16		FDP	Breakthrough Future Technologies	Easwari Engineering College,Chennai	16.12.2020 to 18.12.2020
17		FDP	Internet Of Things and Applications in 5G	Easwari Engineering College,Chennai	05.01.2021 to 09.01.2021
18		Seminar	Crack Data Science with Machine Learning	P.A. College of Engineering and Technology	10.02.2021
19	Ms.P.KaviyaPriya	ATAL FDP	Data Sciences	Sri Krishna College of Engineering and Technology	7-12-2020 TO 11-12-2020
20	Ms.P.KaviyaPriya	STTP	Al and other Advances in Computational Methods for Genomics	JNN COLLEGE OF ENGINEERING	14-12-2020 TO 19-12- 2020
21	Mr.S.Karthic	STTP	Integrative Internet of Things and Deep Learning for Smart Health Care	KPR Institute of Engineering and Technology	14.12.2020 to 19.12.2020





Hindusthan College of Engineering and Technology Department of Information Technology

22		FDP	Foundations of Deep Neural networkd for Image	Maturi Venkata Subba Rao Engineering College	07-12-2020 to 12-12-2020
23	Ms.P.Anitha	FDP	Data Science using Python	Shri Vishnu Engineering College for Women	07-12-2020 to 19-12-2020
24		FDP	Augmented Reality (AR)/ Virtual Reality (VR)	NARASARAOPETA ENGINEERING COLLEGE.	4.1.2021 to 8.1.2021
25	Mr.N.Ilayaraja	ATAL	Augmented Reality (AR)/ Virtual Reality (VR)	Indian Institute of Technology, Patna	30.11.2020- 04.12.2020
26		AICTE STTP	Practical Approaches for Next Generaation Sequencing Technologies	K.S. Rangasamy College of Technology	21.12.2020- 26.12.2020
27	Ms.T.Sakthi Sree	FDP	Ideas and Innovations in Blockchain Architecture, Technology and its Research Applications	Syed Ammal Engineering College	16.11.2020 to 29.11.2020
28	-	FDP	Data Science using Python	Shri Vishnu Engineering College for Women	07-12-2020 to 19-12-2020
29	Mr.J.Antony vijay	Workshop	Intellectual Property Rights	Hindusthan College of Engineering and Technology	10-12-2020 to 11-12-2020
30	Mr.M.Sathish kumar	ATAL FDP	Data Sciences	Sri Krishna College of Engineering and Technology	7-12-2020 TO 11-12-2020
31	Ms.R Amudha	AICTE STTP	Natural Language Processing	Manipal Institute Of Technology Manipal	14.12.2020 To 19.12.2020



Hindusthan College of Engineering and Technology **Department of Information Technology**

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NPTEL ONLINE CERTIFICATION COMPLETED BY FACULTY MEMBERS





Hindusthan College of Engineering and Technology Department of Information Technology

NPTEL ONLINE CERTIFICATION COMPLETED BY STUDENTS





Hindusthan College of Engineering and Technology Department of Information Technology

CLASS TOPPERS LIST

FINAL YEAR



R.DHAKSHINI, IV IT A

CGPA - 9.02



R.NIVETHA, IV IT B

CGPA – 9.1

THIRD YEAR



P.NAVEEN KUMAR, III IT A CGPA - 9.33



S.SARANYA, III IT B CGPA – 9.63

SECOND YEAR



S.FLASHMA, II IT A

CGPA – 9.39



C.VARSHA,II IT B

CGPA – 9.73



Hindusthan College of Engineering and Technology Department of Information Technology

PLACED STUDENTS

WIPRO



KARTHIKEYINI R, IV IT A



VIJAY S IV IT B VEGAS TECHNOLOGY

NOVAC TECHNOLOGY SOLUTIONS



AVINASH V IV IT A



KALAIYARASAN K IV IT A



ANANDHAKUMAR.P IV IT A HASHTAG TECHNOLOGIES



JEYAPRIYA T IV IT A



NIVEDHITHA.S IV IT B



SIVA VENKATESH S IV IT B



SURYA K IV IT B



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PLUTO HOSTING



NANDHA GOPAL N IV IT B

VIVENSAS INFOTECH PVT LTD



AJAY JOHNSON G IV IT A SHELLCODE



GUNAL SRIRAM R IV IT A



PRIYADHARSHINI C IV IT B UMA MAHESWARI G IV IT B IOPEX TECHNOLOGIES



T A VISHWAVIGNESH M IV IT B FIS GLOBAL



RANJITH KUMAR M IV IT B MINDTREE



NIVEDHA.R IV IT B



VASANTH V P IV IT B



MOHAMED KHALITH P S IV IT A







MAHESHKUMAR S IV IT A



SENTHIL ARUN.R IV IT B



KAVIYARASU R IV IT A





KRISHNAN P IV IT A

EXPLEO



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SOPRA STERIA



KIRUBAKARAN R IV IT A

OPTIRISK LEARNING SYSTEMS (P) LTD



PERIYASAMY G IV IT B





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