

# InfoQuest

-A Technical Magazine  
Information Technology

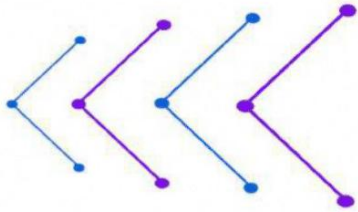


Department of IT  
Dr. Mahalingam College Of Engineering & Technology  
NPT - MCET Campus,  
Udumalai Road, Pollachi-642 003,  
Coimbatore - District, Tamilnadu, India

**Volume:14**

**Issue:1**

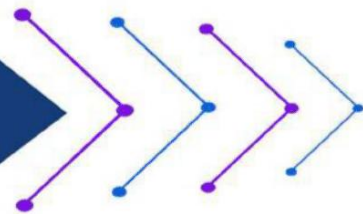
**Mar 2021**



# Info Bee



97 TECHNICAL  
ASSOCIATION



# ACTIVITIES CONDUCTED

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Alumni Interaction on "Opportunities in Industries"  
by our alumni Ms.Revathi (2016-2020 Batch)  
conducted through Microsoft Teams  
30.01.2021*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Alumni Interaction on "Placement preparation"  
by our alumni Mr.C.Mohan (2016-2020 Batch)  
conducted through Microsoft Teams  
23.01.2021*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Senior Interaction on "Queries in Placement interviews"  
by final year students  
19.01.2021*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Online Technical Quiz  
23.02.2021*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Online Technical Quiz(Java Programming)  
16.02.2021*

# ACTIVITIES CONDUCTED

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Senior Interaction on "Placement & Project activities"*

*by Mr.Yuvan Karthick, (17BIT013) & Nandhini T (17BIT017)*

*09.02.2021*

*Dr.S.Ramakrishnan, Prof & Head*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Alumni Interaction on "Discussion on Employment openings in Industries"*

*by Mr.Pavan, SAP Consultant,*

*Kaar Technologies of 2016-2020 Batch*

*06.02.2021*

*Dr.S.Ramakrishnan, Prof & Head*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Alumni Interaction on "Placement Opportunities"*

*by Ms.Rasika, Program Analyst Trainee in CTS of 2016-2020 Batch*

*02.02.2021*

# ACTIVITIES CONDUCTED

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Training on Adobe Illustrator for Logo design*

*30.03.2021*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Senior Interaction on "Placement preparation for various companies" by Final Year students*

*Aakash (17BIT009) and Viswateja (17BIT021)*

*23.03.2021*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Online Technical Quiz*

*19.03.2021*

*Dr.S.Ramakrishnan, Prof & Head*

*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Alumni Interaction by Mr.Pavan, SAP Consultant,  
Kaar Technologies of 2016-2020 Batch*

*09.03.2021*

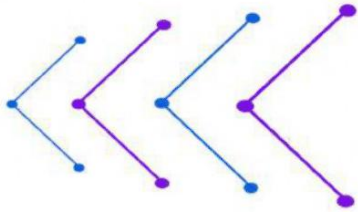
*Mr.K.Balasamy, AP*

*Mr.N.Praveen Sundra kumar, AP*

*Ms.A.G.Priya Varshini, AP*

*Mini project demo of Final years to II Years*

*02.03.2021*



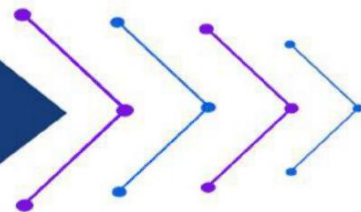
# STUDENTS

# ACTIVITIES



1. *Participation in Seminar| Workshop |  
Training etc. by the Students*

2. *Extra-Curricular | Co-curricular Activities*



## PARTICIPATION IN SEMINAR/ WORKSHOP / TRAINING ETC. BY THE STUDENTS

Naraayani.N (18BIT012)

Webinar – Artificial neural networks

conducted by Edureka

online

31/01/2021

Harshini,(18BIT036)

Aiswarya Ganesh(18BIT068)

Narayani (18BIT012)

Participated in final event of Anveshana International Contest.

online

29.03.2021

Dhivya.B(18BIT081)

Sathya Prabha.R (19BIT303)

Kaviya.K (18BIT059)

Kalpana Devi.C (18BIT089)

Bhalavaishnavi.V.S (18BIT079)

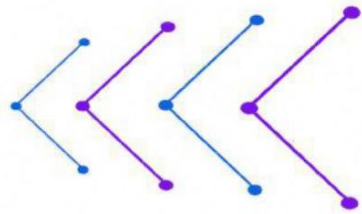
Sriaravinthan.V (18BIT077)

Arjun.S (18BIT069)

Online Webinar on “Project planning and management” – an agile approach

Amrita Vishwa Vidhyapeetham university, Coimbatore

20/03/2021

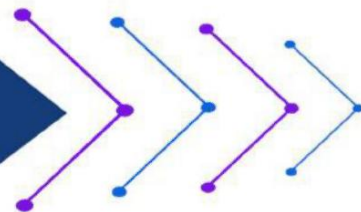


# FACULTY

# ACTIVITIES



1. *Programmes Organized By The Department*
2. *Participation In Seminar | Workshop | Training Etc*
3. *Papers Published In International | National Journals*
4. *Books | Monographs Published*





**PARTICIPATION IN SEMINAR / CONFERENCE / WORKSHOP  
/ TRAINING ETC. BY OUR FAULTY MEMBERS**

**Ms.D.Janani, AP**

ATAL FDP on Internet of Things conducted by SASTRA University

Online 23.02.2021 to 28.02.2021

**Ms.K.Renuka Devi, AP**

AICTE funded Online Short Term Training Programme (STTP) on  
Digital Skill Development for Professionals

Conducted by Bhivarabai Sawant Institute of Technology & Research, Pun

Online 22.02.2021 to 27.02.2021

**Dr.S.Ramakrishnan, Prof & Head**

ATAL FDP on Augmented Reality (AR)/ Virtual Reality (VR)  
conducted by KLE Dr. M S Sheshgiri College of Engineering & Technology.

Online 22.02.2021 to 26.02.2021

**Mr. S.Sasidharan, AP**

**Ms.L.Meenachi, AP(SS)**

ATAL FDP on Quantum Computing Conducted by  
Thadomal Shahani Engineering College

Online 22.02.2021 to 26.02.2021

**Ms.A.G.Priya Varshini, AP**

ATAL FDP on Data Science

Conducted by university college of engineering, Osmania university

Online 22.02.2021 to 26.02.2021

**Dr.A.P.Janani, Asso. Prof.,**

ATAL FDP on Cyber Security

Conducted by Indian Institute of Information Technology Pune.

.Online 22.02.2021 to 26.02.2021

**PARTICIPATION IN SEMINAR / CONFERENCE / WORKSHOP  
/ TRAINING ETC. BY OUR FAULTY MEMBERS**

**Ms.T.Sumathi, AP**

**Ms.A.Logeswari, AP**

**Mr. N. Praveen Sundra Kumar, AP**

ATAL FDP on Cyber Security Conducted by Indian Institute of Information Technology Pune.

Online 22.02.2021 to 26.02.2021

**Mr.K.Balasamy, AP**

ATAL FDP on AI in Healthcare , Model Engineering College

Online 22.2.2021 to 26.2.2021

**Mr.K.Kanagasabapathi, AP**

ATAL FDP on Artificial Intelligence" conducted by Indian Institute of Technology, Ropar

Online 22.2.2021 to 26.2.2021

**Ms.K.Renuka Devi, AP**

ATAL FDP on Data Sciences Conducted by Institute of Aeronautical Engineering, Hyderabad

Online 15.02.2021 to 19.02.2021

**Dr. A. S. Muthanantha Murugavel, Asso. Prof.**

AICTE – NITTT Orientation Training Programme(OTP) for Mentors by  
National Institute of Technical Teachers Training and Research, Chennai

Online 04.01.2021 to 08.01.2021

**Mr. N. Praveen Sundra Kumar, AP**

ATAL FDP on Block Chain Conducted by Chaitanya Bharathi Institute of Technology.

Online 04.01.2021 to 08.01.2021

**PARTICIPATION IN SEMINAR / CONFERENCE / WORKSHOP  
/ TRAINING ETC. BY OUR FAULTY MEMBERS**

**Dr. S. Ramakrishnan, Prof./Head**

ATAL FDP on Data Science Conducted by GLOBAL ACADEMY OF TECHNOLOGY.

Online 19.01.2021 to 23.01.2021

**Mr. J. Ramprasath, AP**

ATAL FDP on Data Science Conducted by GLOBAL ACADEMY OF TECHNOLOGY.

Online 19.01.2021 to 23.01.2021

**Mr. K. Balasamy, AP**

ATAL FDP on Tele Medicine Conducted by G.Pulla Reddy Engineering College.

Online 19.01.2021 to 23.01.2021

**Dr.M.Balakrishnan, AP(SG)**

ATAL FDP on " Data Sciences" Conducted by Gudlavalleru Engineering College

Online 19.01.2021 to 23.01.2021

**Ms. R. Menaha, AP(SS)**

Certificate Course on Digital Teaching Techniques Organized by ICT Academy

Online 18.01.2021 to 23.01.2021

**Ms.S.Soundariya, AP**

ATAL FDP on "Quantum Computing"

Conducted by Sathyabama Institute of Science and Technology

Online 18.01.2021 to 22.01.2021

**Dr. Arockia Christopher, AP(SG)**

ATAL FDP on Artificial Intelligence Conducted by G.Pulla Reddy Engineering College

Online 18.01.2021 to 22.01.2021

**PARTICIPATION IN SEMINAR / CONFERENCE / WORKSHOP  
/ TRAINING ETC. BY OUR FAULTY MEMBERS**

**Dr.S.Ramakrishnan, Prof & Head**

**Mr.J.Ramprasadh, AP**

**Mr.S.Sasidharan, AP**

ATAL FDP on Cyber Security Conducted by Sanjivani College of Engineering, Kopargaon

Online 08.2.2021 to 12.2.2021

**Mr.K.Kanagasabapathi, AP**

ATAL FDP on Cyber Security Conducted by Narasaraopeta Engineering College

Online 08.2.2021 to 12.2.2021

**Ms.S.Soundariya, AP**

ATAL FDP on Artificial Intelligence, Machine Learning and Deep Learning

Conducted by Karpagam College of Engineering

Online 02.02.2021 to 06.02.2021

**Dr.A.P.Janani, Asso. Prof.**

**Ms.T.Sumathi, AP**

**Ms.A.Logeswari, AP**

**ATAL FDP on IoT conducted by Mizoram University**

Online 01.02.2021 to 05.02.2021

**Dr.M.Balakrishnan, AP(SG)**

ATAL FDP on Artificial Intelligence conducted by G Pulla Reddy Engineering College

Online 01.2.2021 to 05.02.2021

**Ms.A.G.Priya Varshini, AP**

ATAL FDP on AI-Machine learning and Optimization Conducted by

IIIT, Allahabad

Online 01.2.2021 to 05.02.2021

**PARTICIPATION IN SEMINAR / CONFERENCE / WORKSHOP  
/ TRAINING ETC. BY OUR FAULTY MEMBERS**

**Dr. P. Sathiyamurthi, AP(SS)**

AICTE – ISTE induction / refresher Programme on Block Chain Technology  
Conducted by KKR & KSR Institute of Technology & Sciences

Online 25.03.2021 to 31.03.2021

**Ms. G. Anandhi, AP**

Hands-on Workshop on Python for Engineers Conducted by Nehru Institute of Technology

Online 29.03.2021 to 30.03.2021

**Ms.K.Renuka Devi, AP**

**Dr.A.B.Arockia Christopher, AP(SG)**

ATAL FDP on Computer Science & Biology

Conducted by Sri Manakula Vinayagar Engineering College.

Online 22.03.2021 to 26.03.2021

**Ms.K.Renuka Devi, AP**

Virtual Seminar on Affective Management conducted by Sinhgad Institutes, Pune.

Online 08.03.2021 to 13.03.2021

**Dr.S.Nithya, AP(ss)**

**Ms.L.Meenachi, AP(SS)**

ATAL FDP on Visual Communication Conducted by S R Engineering College.

Online 01.03.2021 to 05.03.2021

**Ms.K.Renuka Devi, AP**

Orientation programme on Integration of Pedagogical strategies with ICT for transformation of Engineering Education Conducted by PSG Institute of technology and Applied Research, Coimbatore

Online 25.02.2021 to 03.03.2021

**PARTICIPATION IN SEMINAR / CONFERENCE / WORKSHOP  
/ TRAINING ETC. BY OUR FAULTY MEMBERS**

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**Ms.K.Renuha Devi, AP**

**Dr.A.B.Arockia Christopher, AP(SG)**

ATAL FDP on Computer Science & Biology

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Virtual Seminar on Affective Management conducted by Sinhgad Institutes, Pune.

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**Dr.S.Nithya, AP(ss)**

**Ms.L.Meenachi, AP(SS)**

ATAL FDP on Visual Communication Conducted by S R Engineering College.

Online 01.03.2021 to 05.03.2021

**Ms.K.Renuka Devi, AP**

Orientation programme on Integration of Pedagogical strategies with ICT for transformation of Engineering Education Conducted by PSG Institute of technology and Applied Research, Coimbatore

Online 25.02.2021 to 03.03.2021

PAPER PUBLISHED IN INTERNATIONAL JOURNALS

Ramakrishnan S Prof. & Head

Reviewed on the book "Artificial intelligence and judicial modernization"

Cui Y., Springer International Publishing, New York, NY, 2020. 224 pp.

Type: Book (978-9-813298-80-4) (This review has been published by  
ACM Computing Reviews)ACM Computing Reviews,

Review #: CR147193

19.02.2021

Reviewed on the book "Image texture analysis : foundations, models and  
algorithms" Hung C., Song E., Lan Y., Springer International Publishing,

New York, NY, 2019. 258 pp. Type: Book (978-3-030137-72-4) (This review  
has been published by ACM Computing Reviews)ACM Computing Reviews,

Review #: CR147192

18.02.2021

Ramakrishnan S Prof. & Head

Muthanantha Murugavel A S, Asso. Prof.,

Sathiyamurthi P, AP(SS)

Ramprasath J,AP

Seizure Detection with Local Binary Pattern

and CNN Classifier Journal of Physics: Conference Series

Vol.1767, No.2021, doi:10.1088/1742-6596/1767/1/012029

February 2021

PAPER PUBLISHED IN INTERNATIONAL JOURNALS

Ponni alias Sathya S, AP(SS)

Ramakrishnan S, Prof. & Head

Sumathi T, AP

Sasidharan S, AP

Resolving ownership rights of video data

using visible and invisible watermarking in

DWT-SVD domain Vol.1767, No.2021, doi:10.1088/1742-6596/1767/1/012053

Feburary 2021

Ramakrishnan S, Prof & Head

Nithya S, AP(SS)

L.Meenachi, AP(SS)

Janani A P, Asso. Prof.,

Extended Adjacent Local Binary Pattern for

Texture based Image Retrieval Vol.1767, No.2021,

doi:10.1088/1742-6596/1767/1/012043

Feburary 2021

Balakrishnan M, AP(SG)

Arockia hristopher, AP(SG)

Ramprakash P, AP

Logeswari A,AP

Prediction of Cardiovascular Disease using

Machine Learning

Feburary 2021



PAPER PUBLISHED IN INTERNATIONAL JOURNALS

Menaha R, AP(SS)

Jayanthi V E, Prof./ECE PSNA College of Engineering and Technology

Krishnaraj N, AP

Praveen Sundra Kumar N, AP

A Cluster Based Approach for Finding

domain wise Experts in Community

Question Answering System

Vol.1767, No.2021, doi:10.1088/1742-6596/1767/1/012053

February 2021

A.G.Priya Varshini, AP

Anitha Kumari K, Asso. Prof/CSE

PSG College of Technology

Janani D, AP

Soundariya S, AP

Comparative analysis of Machine learning

and Deep learning algorithms for Software

Effort Estimation Vol.1767, No.2021, doi:10.1088/1742-6596/1767/1/012019

February 2021

Mr.K.Balasamy, AP

Shamia D, Asso. Prof./ ECE VSB College of Engineering, Coimbatore

Feature Extraction-based Medical Image Watermarking Using Fuzzy-based

Median Filter IETE Journal of Research DOI:10.1080/03772063.2021.1893231

March 2021

Ms.R.Menaha, AP(SS)

Dr.V.E.Jayanthi, Department of ECE, PSNA college of Engineering and Technology, Dindigul

Mining the web to discover acronym definitions based on sequence labeling and iterative query expansion

model Journal of concurrency and computation: Practice and Experience- Wiley

DOI: <https://doi.org/10.1002/cpe.6291>

March 2021

PAPER PUBLISHED IN INTERNATIONAL JOURNALS

Ramprasath J, AP

Seethalakshmi V, Asso. Prof./ECE,

KPR Institute of Engineering and Technology,

Improved Network Monitoring Using Software-Defined Networking for DDoS  
Detection and Mitigation Evaluation Wireless Personal Communications

01.01.2021

Dr.P.Sathiyamurthi, AP(SS)

Mohamed Jassim.M

Suman.M

A Novel Approach for Speech Encryption using Lorenz and Tent Chaotic map South Asian Journal  
of Evaluation in Practice- Sambodhi

January 2021

Ramakrishnan S Prof. & Head

Muthanantha Murugavel A S, Asso. Prof.,

Sathiyamurthi P, AP(SS)

Ramprasath J, AP

Seizure Detection with Local Binary Pattern  
and CNN Classifier Journal of Physics: Conference Series

February 2021

# STAFF DEVELOPMENT PROGRAMMES

IT Dr.S.Ramakrishnan, Prof & Head

Dr.A.S.Muthanantha Murugavel, Associate Professor

Alumni Interaction on Industry Expectation conducted by

Mr. Afras Ali (2015 -2019) Senior Software Developer, Audi Global Enterprise, Bengaluru **20.03.21**

Dr.S.Ramakrishnan, Prof & Head

Mr.K.Kanagasabapathi, AP

Alumni Interaction on Cloud Computing with AWS conducted by

Mr.P.Mathivanan (2013 -2017) Big Data and Cloud Engineer AspireNXT Solutions **20.02.2021**

Dr.S.Ramakrishnan, Prof & Head

Mr.J.Ramprasath, AP

Expert Interaction on IoT conducted by Mr.N.Vasanth,

Co-Founder, Pinesphere Solutions, Coimbatore **13.02.2021**

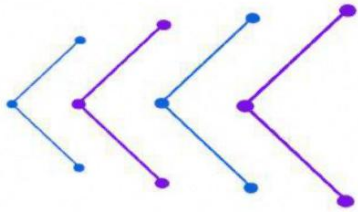
## PAPERS PRESENTED IN INTERNATIONAL CONFERENCE / SEMINAR / SYMPOSIUM / WORKSHOP

IT Dr.A.P.Janani, Asso. Prof.,

Fine grained sentimental analysis of social network chat using R International conference on Computing, communications, electrical and Biomedical Systems

(ICCEBS 2021) KPR Institute of Engineering and Technology, Coimbatore

Online **25.03.2021 &26.03.2021**



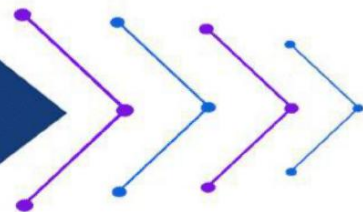
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# PLACEMENT

# DETAILS

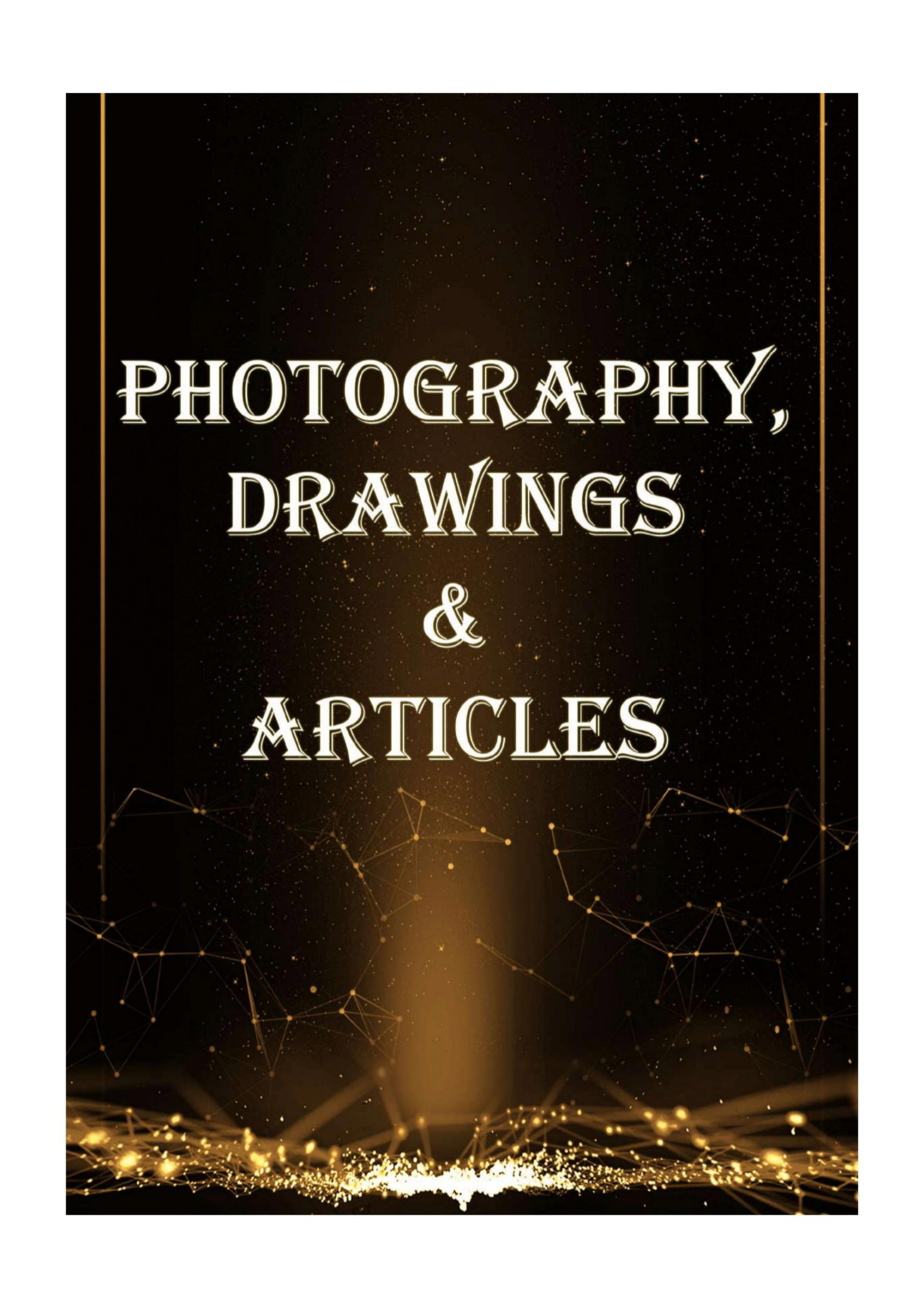


*Students Placement  
Details*

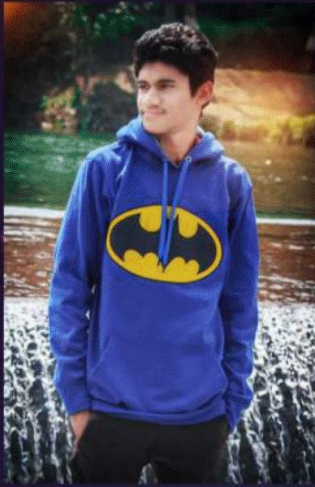


PLACEMENT DEATILS

1. VVDN Technologies Pvt. Ltd.	5
2. Vuram Technology Solutions Pvt. Ltd.	8
3. ACTYV Pvt. Ltd.	3
4. Infosys Ltd. (HackwithInfy)	1
5. GainInsights Solutions Pvt. Ltd.	3
6. DXC Technologies Pvt. Ltd.	5 +(1 Dual in GainInsights)
7. Hibiz Solutions & Consultants, Inc.	1 (Dual in CTS)
8. Burning Glass Technologies Pvt. Ltd.	2
9. Cognizant Technology Solutions Pvt. Ltd.	5
10. Tata Consultancy Services Pvt. Ltd.	5 + ( 2 Dual)
11. Infosys Ltd.	2 +(1 Dual)
12. Accenture Solutions Pvt. Ltd.	1 +(1 Dual in CTS)
13. Ionixx Technologies Pvt. Ltd.	1
14. NTT DATA	6 + 1(dual)
15. Craft Silicon Pvt. Ltd.	1
16. Calibrant Technologies Pvt. Ltd.	1
17. SIERRA ODC Pvt. Ltd.	2
18. Aspire Systems Pvt. Ltd.	1
19. Avasoft Technology Pvt. Ltd.	1
20. Solartis Technology Services Pvt. Ltd.	2
21. ZOHO Corporation Pvt. Ltd .	1
22. HCL Technologies Pvt. Ltd.	1
Total	58 + (7 Dual)



PHOTOGRAPHY,  
DRAWINGS  
&  
ARTICLES



*Gowtham  
Madhusuthanan. K  
18bit067*

*Kaviya .K  
18bit059*



## *Book Review: Manners That Sell*

### *About The Book:*

*Title: Manners That Sell: Adding The Polish That Builds Profits*

*Author: Lydia Ramsey*

*Publisher: Longfellow Press, Savannah, GA*

*Publisher Address: P.O. Box 16545, Savannah, GA 31416, 912-598-9812*

*ISBN: 0-9670012-0-X*

*Price: \$19.95 Date: 2000, Page Count: 1882. Cost-efficient*

*This beautifully laid out trade paperback has a gorgeous and practical design both inside and out. I recommend you read this book with a highlighter and a pen and be ready to take copious notes in the blank pages thoughtfully provided between chapters.*

*Manners That Sell: Adding The Polish That Builds Profits should be required reading for high school and college students and for anyone already in the business environment. Once upon a time, good manners were taught in school and at home, but that time has long since passed. This book provides the perfect refresher course for those of us who were taught manners but no longer remember the finer points of etiquette.*

*While reading this book I discovered that the author, Lydia Ramsey, covered every conceivable point of etiquette including many that I'd never been taught. Each of the twelve chapters covers one main topic broken down into digestible bite sized chunks of rules and guidelines to enhance credibility and professionalism. Topics include first impressions, greetings and introductions, the art of conversation, dressing for business, telephone courtesy, electronic etiquette, correspondence in business, etiquette in the office, gift-giving in business, etiquette out of the office, dining for profit and doing business internationally.*



The author of this delightful book, Lydia Ramsey, is a business etiquette expert with over thirty years of experience working with non-profits, corporations, colleges and universities. She is a frequently published author who presents workshops, seminars and keynotes on all aspects of business etiquette.

I recommend businesses buy this book in bulk and present one to every employee from the frontline up to the top management. In this ever changing world with so many consumer choices, the bottom line is often affected by the simple courtesies that can and should be afforded to customers. You need this book if you want your employees to succeed and your business to thrive.

#### *Author Bio*

Bonnie Jo Davis is a Virtual Assistant with over twenty years of experience helping small businesses grow. .



*Sabetha. S*  
*18bit070*

# **Department of Information Technology**

## **Vision of the Department**

To become a Centre of Excellence in education and research in the field of Information Technology, to meet global challenges in computing industries

## **Mission of the Department**

- To impart world-class knowledge in the field of Information Technology
- To promote industry-institute interactions to empower the faculty members and students
- To support and facilitate research and development activities
- To develop all round personality by inculcating the values and skills needed for students to upgrade themselves as IT professionals

## **Programme Educational Objectives (PEOs)**

**B.Tech. Information Technology graduates will:**

**PEO 1. Technical Expertise:** Have high level of technical competency to identify problems and to generate innovative solutions, which would conform to the needs of IT industry

**PEO 2. Lifelong learning:** Successfully adapt to changes in roles and responsibilities, through lifelong learning, for collaborating professionally with various stakeholders

**PEO 3. Ethical Knowledge:** Ethically apply their computing knowledge and skills considering societal, economic and environmental factors

## Program Outcomes

### Engineering Graduates will be able to:

- PO1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10. **Communication:** Communicate effectively on complex engineering activities with

the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## **Program Specific Outcomes (PSOs)**

**The graduates of Information Technology Programme will be able to:**

**PSO1. Open source software:** Develop customized solutions for real world problems using open source software

**PSO2. Data science:** Manage, store, retrieve and analyze the voluminous data efficiently

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