

NEWSLETTER INFOSCIENCE

2019-2020



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**DEPARTMENT
OF
COMPUTER SCIENCE AND ENGINEERING**

HOD's DESK

- ❖ The gains in education are never really lost. The object of teaching a student is to enable him to get along without his teacher.
- ❖ Building positive relationships with students bring me joy.
- ❖ It is their needs and diverse experiences that make my job exciting and rewarding and gave me a wonderful opportunity for exchanging and sharpening the knowledge for stimulating interest and curiosity in a variety of subjects which are essential to true education.

Dr. P. MayilvelKumar M.E., Ph.D

INSTITUTE VISION AND MISSION

VISION:

- ❖ To impart quality technical education emphasizing innovations and research with social and ethical values.

MISSION:

- ❖ Establishing state-of-the-art infrastructure, effective procedures for recruitment of competent faculty and innovative teaching practices.
- ❖ Creating a conducive environment for nurturing innovative ideas and encouraging research skills.
- ❖ Inculcating social and ethical values through co-curricular and extra-curricular activities.

DEPARTMENT VISION AND MISSION

VISION:

- ❖ To provide technical education in the field of Computer Science and Engineering by imparting employability, research capabilities, entrepreneurship with human values.

MISSION:

- ❖ Adopting innovative teaching learning practices through the state-of-the-infrastructure.
- ❖ Establishing a conducive environment for innovations and research activities.
- ❖ Inculcating leadership skills, moral and social values through extension activities.

Editorial Committee:

Staff members

Dr.A.Sabanayagam

Mr.P.N.Ramesh

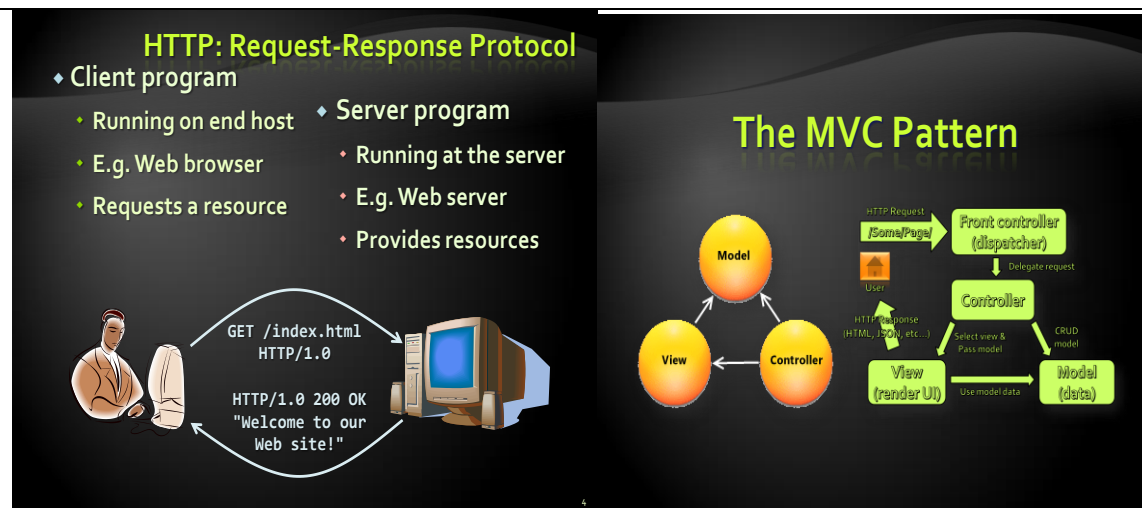
Student members

Amirthavarshini. K

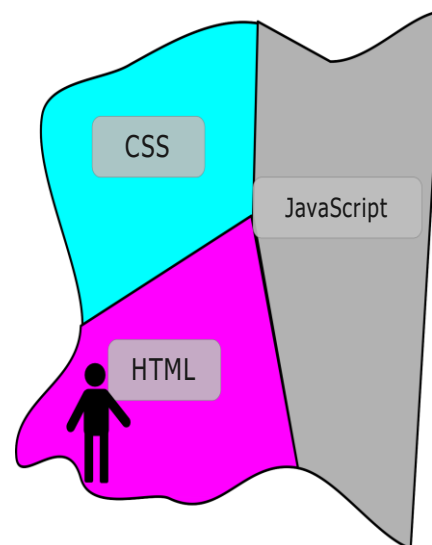
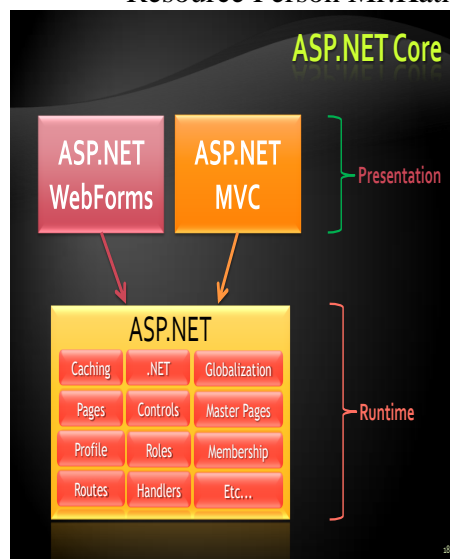
Kavinkumar. K

SEMINARS, SYMPOSIUMS, GUEST LECTURES AND WORKSHOPS ORGANIZED

- ❖ CSE department conducted a webinar on "Web Application using ASP.NET and MVC" on 08.05.2019.



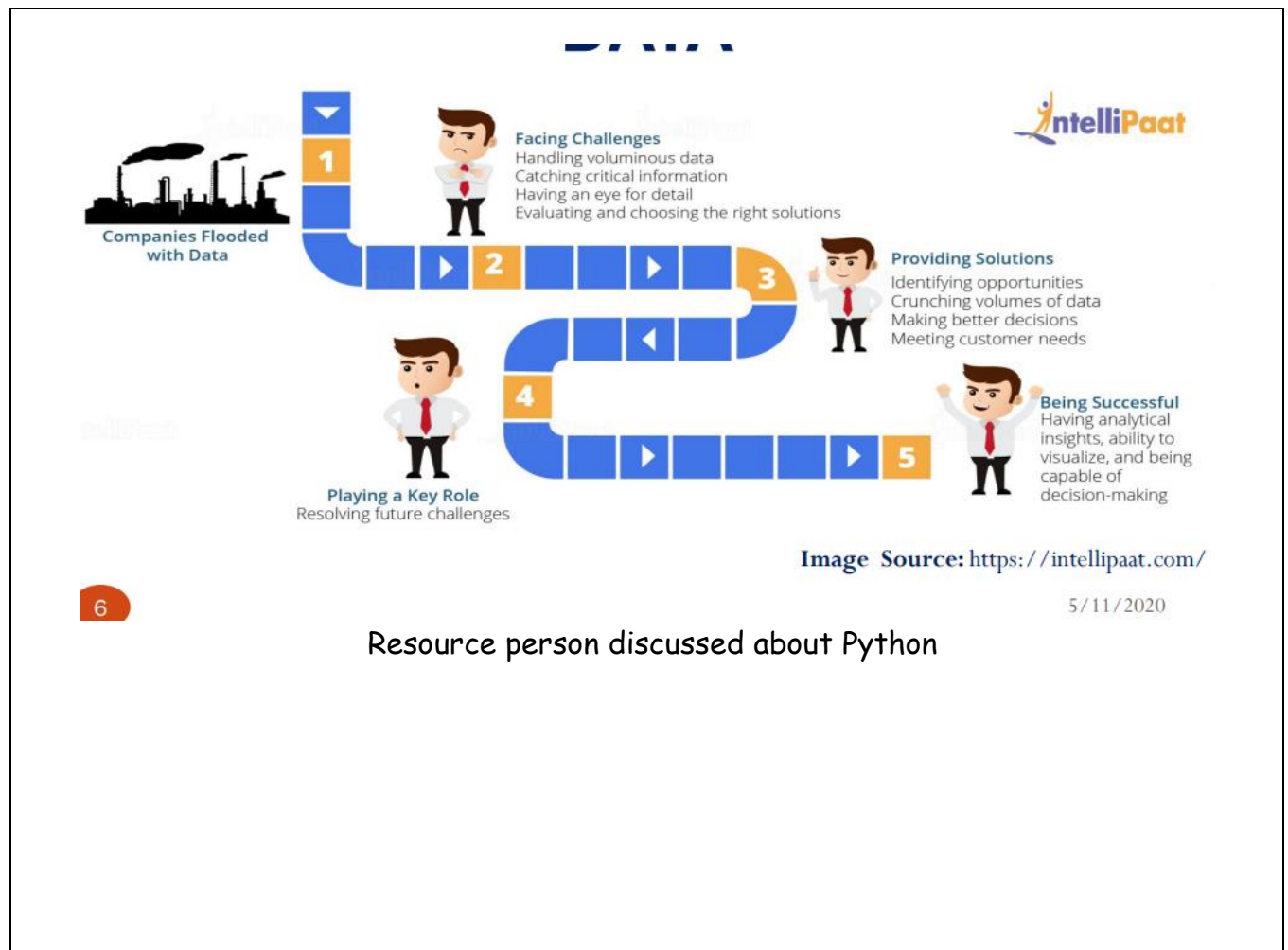
Resource Person Mr.Kathiresk Kumar discussed MVC Pattern



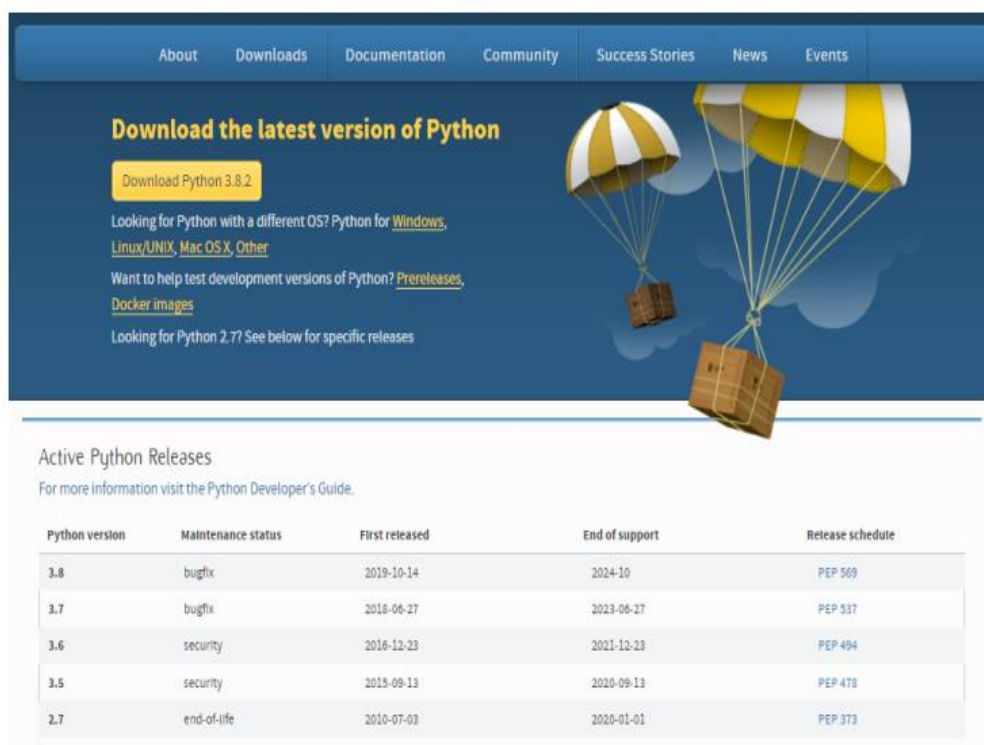
Resource person shared ASP.NET core

Karpagam Institute of Technology & Institution's Innovation Council, Jointly organized a Webinar on Web application using Asp.Net and Mvcon 08.05.2020. Mr.P.N.Ramesh, AP/CSE gave welcome address and Chief Guest Introduction. The session was handled by the Resource Person Mr. Kathiresh Kumar, Associate in Cognizant, .Net Domain. In the first half of the session, he gave some short introduction about basics of web application using ASP.NET AND MVC, then he explained about the MVC Pattern and ASP.Net core used in the software development. Resource Person helps the students to create innovative software to become a successful developer.

Webinar on Python for Data Science on 11.05.2020



Python



Python version	Maintenance status	First released	End of support	Release schedule
3.8	bugfix	2019-10-14	2024-10	PEP 569
3.7	bugfix	2016-06-27	2023-06-27	PEP 537
3.6	security	2016-12-23	2021-12-23	PEP 494
3.5	security	2015-09-13	2020-09-13	PEP 478
2.7	end-of-life	2010-07-03	2020-01-01	PEP 373

5/11/2020

Resource person discussed about latest versions of Python

Department of Computer Science and Engineering, Karpagam Institute of Technology & Institution's Innovation Council Jointly organized a Webinar on Python for Data Science on 11.05.2020. Mr.P.N.Ramesh, AP/CSE gave welcome address and Chief Guest Introduction. The session was handled by the Resource Person Dr. Manjuprasad B, Associate Professor/CSE, GSSSIETW, Mysuru, Karnataka. In the session, he gave some short introduction about basics of Python, then he explained about the Data science. Resource Person helps the students to create a packages in python.

CSE department conducted a Workshop on "Cyber Forensics" on 16.04.2020

Digital Forensic Science

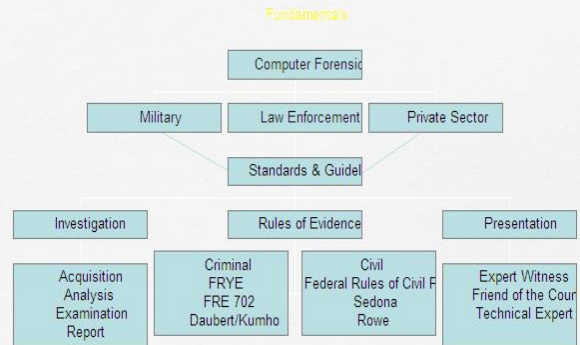
Digital Forensic Science (DFS):

"The use of scientifically derived and proven methods toward the preservation, collection, validation, identification, analysis, interpretation, documentation and presentation of digital evidence derived from digital sources for the purpose of facilitating or furthering the reconstruction of events found to be criminal, or helping to anticipate unauthorized actions shown to be disruptive to planned operations."

Source: (2001). Digital Forensic Research Workshop (DFRWS)

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Computer Forensics



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Resource Person Dr. Manohari, Professor, discussed about Digital Forensics science

Digital Forensic Science



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Cyber Forensics

- Includes:
 - Networks (Network Forensics)
 - Small Scale Digital Devices
 - Storage Media (Computer forensics)
 - Code Analysis

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Resource person shared about Cyber forensics

Cyber Forensic Principles

- The 6 Principles are:

1. When dealing with digital evidence, all of the general forensic and procedural principles must be applied.
2. Upon seizing digital evidence, actions taken should not change that evidence.
3. When it is necessary for a person to access original digital evidence, that person should be trained for the purpose.
4. All activity relating to the seizure, access, storage or transfer of digital evidence must be fully documented, preserved and available for review.
5. An Individual is responsible for all actions taken with respect to digital evidence whilst the digital evidence is in their possession.
6. Any agency, which is responsible for seizing, accessing, storing or transferring digital evidence is responsible for compliance with these principles.

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Job Functions

- CF Technician
- CF Investigator
- CF Analyst/Examiner (lab)
- CF Lab Director
- CF Scientist

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Department of Computer science and Engineering, Karpagam Institute of Technology & Institution's Innovation Council, Jointly organized a Workshop on Cyber Forensics on 16.04.2020. Mr.P.N.Ramesh, AP/CSE gave welcome address and Chief Guest Introduction. The session was handled by the Resource Person Dr.D.Manohari, Professor, St. Joseph College of Engg & Technology, Chennai. In the first half of the session, he gave some short introduction about understanding of an organization's IT environment, then he explained about what is cyber forensics. Resource person explained about the cyber forensics principles.

CSE department conducted a training on "Verbal And Communication Skills" on 08.02.2020

Department of Computer Science and engineering conducted training on Verbal and Communication Skills on 08.02.2020. Mr.P.N.Ramesh, AP/CSE gave welcome address and Chief Guest Introduction. The session was handled by the Resource Person Deepa Chera, Project Manager, FIS Global Business Solutions India PVT Ltd. Effective communication skills are the foundation for success with people. Be it in the professional life or in Personal life one must master the art of communicating the Ideas, Thoughts and Responses. Mastering the art of communication increases effectiveness.

FDP Attended

- ❖ Dr.A.Sabanayagam attended Faculty Development Program on Inculcating Universal Human Values in Technical Education from 14.06.2020 to 18.06.2020 conducted by UHV.
- ❖ Dr.M.Murugesan attended Faculty Development Program on Tools Explored in Disruptive Technologies from 11.05.2020 to 16.05.2020.
- ❖ Dr R. Laxmi Raja attended Faculty Development Program on Principles of Management from 18.05.2020 to 22.05.2020.
- ❖ Dr.Christopher Paul attended Faculty Development Program on R Programming from 22.05.2020 to 28.05.2020.
- ❖ Mrs.K.Kalaiselvi attended Faculty Development Program on Linux Application in Engineering Education from 27.04.2020 to 01.05.2020 conducted by NITTR.
- ❖ Mr.P.N Ramesh attended Faculty Development Program on Python Programming and Machine Learning Techniques from 18.05.2020 - 22.05.2020 and 25.05.2020 to 29.05.2020.
- ❖ Mrs.J.K Kiruthika attended Faculty Development Program on Key Technologies Driving Fourth Industrial revolution from 10.06.2020 to 15.06.2020.
- ❖ Mr.P.N.Vaitheeswaran attended Faculty Development Program on Tools Explored in Disruptive Technologies from 11.05.2020 to 16.05.2020.
- ❖ Mrs.S.Bhuvaneshwari attended Faculty Development Program on R Programming from 22.05.2020 to 28.05.2020.
- ❖ Mrs.C.Kalpna attended Faculty Development Program on Scilab from 27.04.2020 to 02.05.2020.
- ❖ Mrs.C.Kalpna attended Faculty Development Program on Python Programming and Machine Learning Techniques from 18.05.2020 - 22.05.2020 and 25.05.2020 to 29.05.2020.

- ❖ Ms.N.Suganya attended Faculty Development Program on Principles of Management from 18.05.2020 to 22.05.2020.
- ❖ Mrs.N.Suganya attended Faculty Development Program on Linux Application in Engineering Education from 27.04.2020 to 01.05.2020 conducted by NITTR.
- ❖ Mrs.N.Suganyaattended Faculty Development Program on Scilab from 27.04.2020 to 02.05.2020.
- ❖ Ms.L.Nithya attended Faculty Development Program on Python Programming and Machine Learning Techniques from 18.05.2020 - 22.05.2020 and 25.05.2020 to 29.05.2020.

Publication Details

- ❖ Mrs.C.Kalpana published a paper titled "A Gan Based X-Ray Model for Detecting Objects using Convolution Neural Networks" in International Journal of Advanced Science and Technology .
- ❖ Mrs.C.Kalpanapublished a paper titled "Improved Classification of Brain Tumor in MR Images using RNN Classification Framework" in International Journal of Innovative Technology and Exploring Engineering (IJITEE).
- ❖ Mrs.K.Kalaiselvipublished a paper titled "Improved Classification of Brain Tumor in MR Images using RNN Classification Framework" in International Journal of Innovative Technology and Exploring Engineering (IJITEE).
- ❖ Mr.C.Karthikeyanpublished a paper titled "Improved Classification of Brain Tumor in MR Images using RNN Classification Framework" in International Journal of Innovative Technology and Exploring Engineering (IJITEE).
- ❖ Ms.J.K.Kiruthika published a paper titled "Survey on automatically mining query facets" in International Journal of control and automation.

Social Activities

Karpagam Institute of Technology and JP Food Trust Joined in "Coimbatore Food Emergency Team" . Preparation and supply food poor peoples, daily wages, people's road side staying



Snapshot of the activity



Snapshot of the activity



Snapshot of the activity

As per request of Coimbatore District Administration, Karpagam Institute of Technology and JP Food Trust Joined in "Coimbatore Food Emergency Team" . Preparation and supply food poor peoples, daily wages, people's road side staying etc. Daily (Morning, Afternoon and Night) food supply for more than 10000 peoples from 23.3.2020 to 17.5.2020.

Karpagam Institute of Technology, under the guidance of Ministry of Human Resource Development (MHRD), Government of India has organized "The GramaSabha" on 26.01.2020 at 10.00 AM in the Seerapalayam village panchayat.



Snapshot of the activity



Snapshot of the activity



Snapshot of the activity



Snapshot of the activity

Mr.M.Ganesan, President, Seerapalayampanchayat welcomed the Ward Councillors, Government officials, Karpagam Institute of Technology - UBA (UnnatBharat

Abhiyan) Coordinators, Students and village people. The village people submitted petitions to the President in order to solve the problems in their places.

A team of student volunteers has participated enthusiastically at Seerapalayam village.

The people at the meeting have taken the pledge regarding, "Rainwater Harvesting, Swachh Bharat awareness and Leprosy awareness".

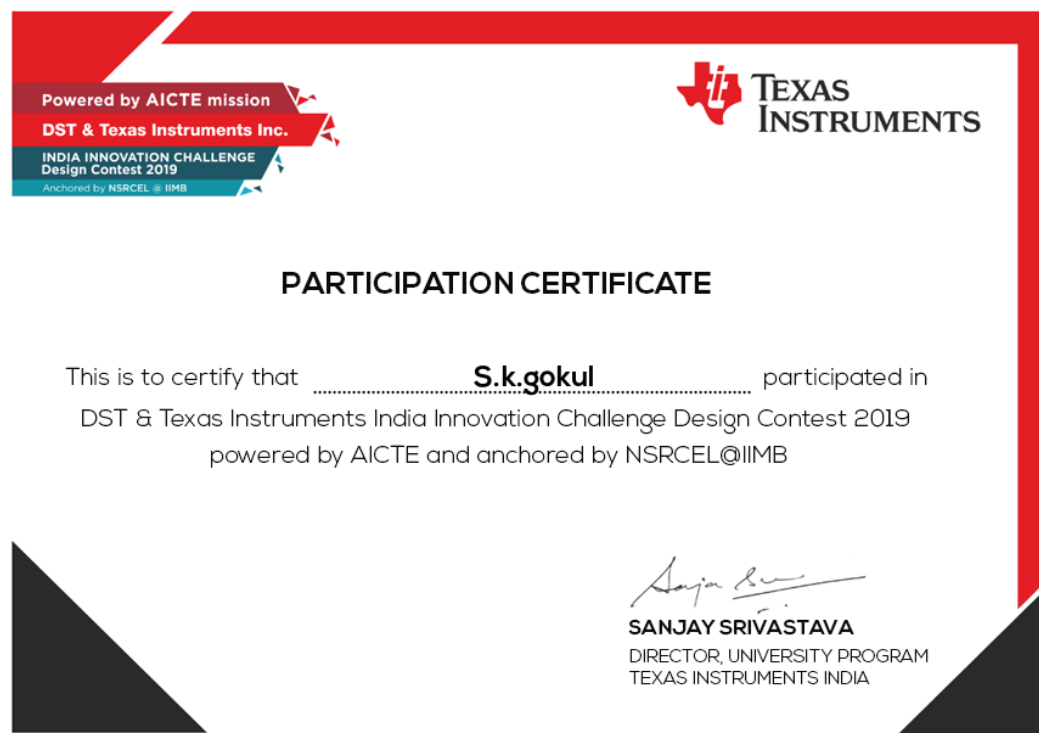
The Seerapalayam village Secretary Mr.Karthik, presented the vote of thanks to the gathering.

The UBA (Unnat Bharat Abhiyan) Coordinators - Karpagam Institute of Technology, Student volunteers, Government officials, Village people etc., have participated in this GramaSabha.

Students Achievements

S.No	Date	Name of the Students	Name of the Event	Name of the Organizer	Achievements / Prizes / Positions
1.	01.08.20 - 03.08.20	Vikash. V Swathilakshmi. M Vinothkumar. H Manikandan. S Ashwin. B Kamachi. S	Smart India Hackathon 2020	MHRD	National Finalist
2.	20.12.19	S.K.Gokul R.Lakshman Prasad M Yogesh T GokulPrasanth	Innovation Challenge Design Contest 2019	AICTE-DST	Participated

Sample certificates





Editorial Faculty Members

- **Dr.A.Sabanayagam**
- **Mr.P.N.Ramesh**

Editorial Student Members

- **Mr.K.Kavinkumar (III-CSE)**
- **Ms.K.Amirthavarshini (III-CSE)**



www.karpagamtech.a