**PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PICT,PUNE - 411043**

**Department of Electronics & Telecommunication Engineering**
**S.No.-27, Pune Satara Road, Dhankawadi, Pune-411043**

**28/03/2020**

**To,**
**The Principal,**
**PICT,Pune.**

1. **WEEKLY REPORT FOR WORK FROM HOME &LEARN FROM HOME MODEL**
   **(18/03/2020 TO 28/03/2020)**

2. **WEEKLY REPORT FOR R&D WORK/DEPT AND INSTITUTIONAL**
   **RESPONSIBILITIES**
   **(18/03/2020 TO 28/03/2020)**

| Date | Activities carried out |
|---|---|
| 18/03/2020 (Wednesday) | 1. Google classroom is created for TE-V class (ITCCN ). <br> 2. Google classroom is created for BE AVE ELECTIVE class (AVE ). <br> 3. ITCCN Learning material is uploaded. <br> 4. AVE Learning material is uploaded. <br> 5. InC 2020 Action Plan is prepared and already sent to Principal sir for Approval and waiting for Execution as Per Principal Directives. <br> 6. Annual Progress Report for AICTE Funded Project under Modrob, Preparation of Annexure-I is in process. <br> 7. R&D publication for SCI indexed Paper is started and it is in process. <br> 8. In-house development of the wireless Experimental kits in Wireless Networks Lab (MODROB) is also on agenda. Planning is in Process. |
| 19/03/2020 (Thursday) | 1. Assignment1 is posted on Google classroom created for TE-V class (ITCCN ). <br> 2. Assignment2 is posted on Google classroom created for BE AVE ELECTIVE class (AVE ). <br> 3. Required ITCCN Learning material is uploaded and discussed accordingly. <br> 4. Required AVE Learning material is uploaded and discussed accordingly. |

| | |
|---|---|
| | 5. Students are instructed to complete the assignment within time and requested to upload it on classroom with Respective roll numbers. |
| | 6. Sagitech Company has given the cheque and Prof. Abhishek Kulkarni (InC finance and Budget head) discussed the next plan of action with me and Prof. Khodaskar Manish. Also inputs from Principal sir is taken today and accordingly proceeding as per his Directives. |
| | 7. As reported earlier, InC 2020 Action Plan was prepared and already sent to Principal sir for Approval and waiting for Execution as Per Principal Directives. |
| | 8. Utilization Certificate with All approved expenses are being prepared for AICTE Funded Project under Modrob, Preparation of Annexure-II is in process. |
| | 9. R&D publication for SCI indexed Paper is started and it is in process. Few papers are downloaded from IEEE and Springer Website. |
| | 10. In-house development of the wireless Experimental kits in Wireless Networks Lab (MODROB) is also on agenda. Planning is in Process. Work will be continued till June Month. This is informed to Account office and accordingly the advance settlement will be done thereafter. |
| 20/03/2020 (Friday) | 1. As per students request, Assignment1 related more learning material is posted on Google classroom for TE-V class (ITCCN ). Also few queries for specific students are discussed in detail.<br>2. Assignment2 related PDFs are discussed for BE AVE ELECTIVE class (AVE ).<br>3. Detail discussion is done with one BE project group for further implementation. Their work is found satisfactory. Also, last year project report template is temporarily shared with this group to proceed for BE Project report writing. I told them to make further changes as per new template sanctioned by HOD and project coordinator in coming few days.<br>4. UT question Paper Setting AVE Subject is almost completed as per CO-PO mapping. Also related material is posted on google classroom and instructed students to study it seriously.<br>5. Project Completion Report, till date For Modrob Scheme, Future Plans for Utilizing the Equipment and/ or Facilities Created. Whether there is any deviation from the purpose for which grant was released? Preparation of Annexure-III is in process.<br>6. R&D publication for SCI indexed Paper is in process. Literature survey for the same is in process. |

| | |
|---|---|
| | 7. MODROB bills and related documents are arranged to prepare yearly report. Probably, few documents are there in Wireless Network Lab. For which I will have to take it on Monday. Planning is in process and discussed with Gawade Sir. |
| 23/03/2020 (Monday) | 1. Assignment2 related learning material is posted on Google classroom for TE-V class (ITCCN ). Also few queries for specific students are discussed in detail. |
| | 2. Assignment3 related PDFs are discussed for BE AVE ELECTIVE class (AVE ). |
| | 3. Assignment3 is posted on Google classroom for BE AVE ELECTIVE class (AVE ). |
| | 4. Detail discussion is done with other BE project group for further implementation. Their work is found satisfactory. Also, last year project report template is temporarily shared with this group to proceed for BE Project report writing. |
| | 5. Audited Utilization Certificate with All details are Created for Modrob project documentation. Preparation of Annexure-IV is in process. |
| | 6. R&D publication for SCI indexed Paper is in process. Literature survey for the same is in process. Few simulations were tried to validate few results simultaneously. |
| | 7. MODROB related documents are being arranged to prepare yearly report. |
| 24/03/2020 (Tuesday) | 1. Assignment3 related preparation (Reading and Slides preparation) is done so it can be posted next day on Google classroom for TE-V class (ITCCN). Also, Queries solution and Discussion on Previous assignment is done. |
| | 2. Assignment4 related preparation (Reading and Slides preparation) is done so it can be posted next day on Google classroom for BE Elective class (AVE). Also, Queries solution and Discussion on Previous assignment is done. |
| | 3. BE project progress discussion is done with group for further implementation. |
| | 4. Receipt & Payment Account with All details, Opening Balance, Grants Received, and Interest incurred if any for Modrob project documentation checking is in process. Preparation of Annexure-V is in process. |

| | |
|---|---|
| | 5. R&D publication for SCI indexed Paper is in process. Literature survey for the same is in process. Existing paper conclusion summary for few papers are read. Few simulations which were tried yesterday was compared with this.<br><br>6. MODROB related documents are being arranged to prepare yearly report.<br><br>7. Torrent Mathematical modelling papers are downloaded. |
| 25/03/2020<br>(Wednesday) | 1. Assignment3 related preparation (Reading and Slides preparation) is done so it can be posted on Google classroom for TE-V class (ITCCN), tomorrow.<br><br>2. Assignment4 related preparation (Reading and Slides preparation) is done so it can be posted on Google classroom for BE AVE ELECTIVE class (AVE) Tomorrow.<br><br>3. (FORM GFR- 19), documents are read from AICTE site.<br><br>4. R&D publication for SCI indexed Paper is in process. Few statistical analysis is done for P2P datasets by calculating the features from them manually. |
| 26/03/2020<br>(Thursday) | 1. Assignment3 and related learning material is posted on Google classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail.<br><br>2. Assignment4 is posted on Google classroom for BE AVE ELECTIVE class (AVE).<br><br>3. Assignment4 related PDFs are discussed for BE AVE ELECTIVE class (AVE).<br><br>4. (FORM GFR- 19), documents are read from AICTE site. Assets acquired wholly or substantially out of government grants, register maintained by grantee institution, Name of Sanctioning Authority. Preparation of Annexure-VII is in process.<br><br>5. R&D publication for SCI indexed Paper is in process. Further Literature survey for the same is in process. Newly downloaded paper conclusion summary is read. Few simulations are tried and compared with yesterday's analysis. |

| 27/03/2020 (Friday) | 1. Assignment4 related preparation (Reading and Slides preparation) is done so it can be posted next day on Google classroom for TE-V class (ITCCN). Also, Queries solution and Discussion on Previous assignment is done. |
| --- | --- |
| | 2. Assignment5 related preparation (Reading and Slides preparation) is done so it can be posted next day on Google classroom for BE Elective class (AVE). Also, Queries solution and Discussion on Previous assignment is done. |
| | 3. BE project progress discussion is done with group for further implementation. |
| | 4. FORMAT for Report for AICTE funded project under Modrob is read in detail. Preparation of Annexure-VIII is in process. |
| | 5. R&D publication for SCI indexed Paper is in process. New Papers are scrolled and tried to understand their methodology used for getting results. |
| | 6. Few standard datasets are downloaded from International databases. Dataset Preparation for preprocessing is pending. |
| | 7. MODROB related documents are being arranged to prepare yearly report. |
| | 8. HTTP Mathematical modelling papers are downloaded. |
| | 9. Few Articles on COVID-19, (Vaccine Development Research) is studied and thinking to write survey paper on the same. |
| 28/03/20 (Saturday) | 1. Assignment4 and related learning material is posted on Google classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |
| | 2. Assignment5 is posted on Google classroom for BE AVE ELECTIVE class (AVE). |
| | 3. Assignment5 related PDFs/PPTs are discussed for BE AVE ELECTIVE class (AVE). |
| | 4. FORMAT for Report for AICTE funded project under Modrob, Preparation of Annexure-VIII is in process. |
| | 5. R&D publication for SCI indexed Paper is in process. |
| | 6. Further Literature survey for the same is in process. Newly downloaded paper are compared for new research methodology used to process dataset is read. |

| | |
|---|---|
| | 7. Research Methodology to be used and Scatter Plot Analysis for few papers are compared with yesterday's downloaded papers. |
| | 8. For writing Article on COVID-19 Vaccines, Few papers are downloaded and started reading it. |

_____
**JAISWAL R.C.**
**Dept. of E&TC, PICT, PUNE.**

03/04/2020

To,
The Principal,
PICT,Pune.

1. **WEEKLY REPORT FOR WORK FROM HOME &LEARN FROM HOME MODEL**
   **(30/03/2020 TO 04/04/2020)**

2. **WEEKLY REPORT FOR R&D WORK/DEPT AND INSTITUTIONAL**
   **RESPONSIBILITIES**
   **(30/03/2020 TO 04/04/2020)**

|  |  |
|---|---|
|  | **Mandatory work as per Principal Directives:** |

1) **Conduct online classes:** online Google Virtual classroom was created on 18th March and Since that day it is is being used for "WORK FROM HOME &LEARN FROM HOME MODEL", till date. Also, Zoom Plaform is used to take Live sessions of entire class as well as Project group students.

2) **Developing e-content/study material & share with students:** Entire e-content/Study Material is Prepared by self and Shared/Posted on online Google Virtual classroom time to time.

3) **Assess assignments/Tests/Mini Projects time to time:** All the Assignments/Tests/Quiz/Crossword Solutions received are seen on online Google Virtual classroom. It will be assessed after receiving the hard copy from all students.

4) **Read Good Books & Research Papers: Reading the following books for writing and publishing the Sci indexed paper:**

"Network Modeling and Simulation A Practical Perspective", Wiley Telecom Publisher, By Mohsen Guizani ; Ammar Rayes ; Bilal Khan ; Ala Al-Fuqaha.

**In addition, following activities (but not limited to)**

[1] **Developing e-content/study material:** Entire e-content/Study Material is Prepared by self and Shared/Posted on online Google Virtual classroom time to time.

[2] **Assessing assignments/Tests/Mini Projects:** All the Assignments/Tests/Quiz/Crossword Solutions received are seen. It will be assessed after receiving the hard copy from all students.

[3] **Sponsored projects:** MODROB Project is undertaken and and is in Process. Daily Activities carried out are mentioned in daily report given below.

[4] **Good Publications:** R&D publication for SCI indexed Paper writing is in process. Day to day progress is mentioned in the daily report.

[5] **Writing Articles:** It is in Process. For writing Article on COVID-19 Vaccines, Few more articles are downloaded and reading and understanding it. Day to day progress is mentioned in the daily report.

[6] **Value addition/Development plan (for Functional Heads, HoDs)**

**etc.:** InC Action Plan Approval and Execution as Per Principal Directives. InC documentation preparation and file completion for ISO. Measurable outcome will be Contribution to Flagship event of PICT, and making it Successful.

InC 2020 Action Plan is prepared and already sent to Principal sir for Approval and waiting for Execution as Per Principal Directives and Normalcy Situation.

# DAY WISE ACTIVITIES IN DETAIL

| Date | Activities carried out |
|------|------------------------|
| 30/03/20 (Monday) | 1. **Quiz Paper** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. <br><br> 2. **Quiz Paper** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. <br><br> 3. Instructed TE students to solve Unit Test-2 Seriously. <br><br> 4. Instructed BE students to solve Unit Test-2 Seriously. |

|  |  |
|---|---|
|  | 5. **FORMAT for Report for AICTE funded project under Modrob, APR and PCR submission is read, Preparation of Annexure-IX is in process.** |
|  | 6. **R&D publication for SCI indexed Paper is in process.** |
|  | 7. **Further datasets for online gaming and VoIP internet traffic is downloaded. Few datasets are in tcpdump and few are in pcap file format. Checking whether both can be processed accurately with common platform processing tool to avoid the error in future.** |
|  | 8. **Literature survey for the same is also in process. Newly downloaded papers are being compared for the same.** |
|  | 9. **Learned that, Scatter Plot Analysis can be done through few linux as well as windows based tools.** |
|  | 10. **For writing Article on COVID-19 Vaccines, Few more articles are downloaded and started reading it. Just learned that, According to the World Health Organization, over 40 types of COVID-19 vaccines are being developed worldwide.** |
| 31/03/20 (Tuesday) | 1. **Crossword Puzzle** and related learning material is posted on online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |
|  | 2. **Crossword Word Search Problem** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. |
|  | 3. Instructed TE and BE students to solve Crossword Puzzle, Crossword Word Search Problem and Unit Test-2 Seriously. Assured them that Answers and solution will be discussed (if facing problems) as and when required on Online Google Virtual Classroom. |

| | |
|---|---|
| | 4. **FORMAT for Report for AICTE funded project under Modrob for yearly submission is being prepared.** |
| | 5. **R&D publication for SCI indexed Paper is in process.** |
| | 6. **Further datasets for online torrent and http internet traffic is downloaded. Checking whether both can be processed accurately with common platform processing tool to avoid the error in future as discussed last time.** |
| | 7. **The Multiple performance evaluation parameters are to be finalized for Internet Traffic identification. Accordingly, Literature survey for the same is also in process. Newly downloaded papers are being compared for the same.** |
| 1/04/20 (Wednesday) | 1. **Quiz-2** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |
| | 2. **Animated Video Learning material** is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |
| | 3. **Assignment5** related preparation (Reading and Slides preparation) is done so it can be posted next day on Online Google Virtual classroom for TE-V class (ITCCN). Also, Queries solution and Discussion on Previous assignment. |
| | 4. **Quiz-2 and related learning material** is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. |
| | 5. **Animated Video Learning material** is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. |

| | |
|---|---|
| | 6. **Assignment6** related preparation (Reading and Slides preparation) will be done so it can be posted next day on Google classroom for BE Elective class (AVE). Also, Queries solution and Discussion on Previous assignment. |
| | 7. Instructed TE and BE students to watch the Interesting video and solve Quiz-2 Seriously. |
| | 8. **FORMAT for Report for AICTE funded project under Modrob for yearly submission is being prepared.** |
| | 9. **R&D publication for SCI indexed Paper is in process.** |
| | 10.**Flow Formation, Feature Selection related papers are being read. Checking whether flow formation can be considered as full flow or sub flows to increase speed of Traffic identification.** |
| | 11. **Accordingly, Literature survey for the same is also in process. Newly downloaded papers are being compared for the same.** |
| 2/04/20 (Thursday) | 1. **Assignment5** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |
| | 2. **Assignment6** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. |
| | 3. **Remaining documents and related list is read from AICTE site to prepare Report for AICTE funded project under Modrob for yearly submission.** |
| | 4. **R&D publication for SCI indexed Paper is in process.** |
| | 5. **For real traffic Traffic identification, WEKA tool is started studying in detail.** |
| | 6. **Accordingly, Literature survey for the same is is done. For which New papers are downloaded.** |

| 3/04/20 (Friday) | |
|---|---|
| | 1. **Quiz3** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |
| | 2. **Assignment6** related preparation (Reading and Slides preparation) is done so it can be posted next day on Online Google Virtual classroom for TE-V class (ITCCN). Also, Queries solution and Discussion on Previous assignment. |
| | 3. **Quiz-3** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. |
| | 4. **Assignment7** related preparation (Reading and Slides preparation) is done so it can be posted next day on Google classroom for BE Elective class (AVE). Also, Queries solution and Discussion on Previous assignment. |
| | 5. **In the said AICTE approved document following documents are to be prepared:** |
| | • **Program Evaluation Commiittee Permission to formulate Program Evaluation Committee (PEC) at institutional level for the PICT-MODROB** |
| | • **making and displaying a plaque at the entrance of the Wireless Networks Lab** |
| | 6. **R&D publication for SCI indexed Paper is in process.** |
| | 7. **For real traffic Traffic identification, WEKA tool is compared with Orange and Rapid Miner for further implementation in detail.** |
| | 8. **Accordingly, New papers downloaded are being read for the same.** |
| | 9. **For writing Article on COVID-19 Vaccines, Few more articles are downloaded and started reading about Gamma radiation on few chemicals which results in Antiviral Actions. Just learned that, such chemicals were used to develop the potential vaccines against SARS-CoV and HIV diseases. After doing detail** |

| | |
|---|---|
| | ==analysis may be in a position to propose some hybrid process for development of Vaccine against COVID-19==. |
| | |

_____

**JAISWAL R.C.**
**Dept. of E&TC, PICT, PUNE.**

11/04/2020

To,
The Principal,
PICT,Pune.

1. **WEEKLY REPORT FOR WORK FROM HOME &LEARN FROM HOME MODEL**
   **(06/04/2020 TO 11/04/2020)**

2. **WEEKLY REPORT FOR R&D WORK/DEPT AND INSTITUTIONAL**
   **RESPONSIBILITIES**
   **(06/04/2020 TO 11/04/2020)**

|  |  |
|---|---|
|  | **Mandatory work as per Principal Directives:** <br><br> 1) **Conduct online classes:** online Google Virtual classroom was created on 18th March and Since that day it is is being used for "WORK FROM HOME &LEARN FROM HOME MODEL", till date. Also, Zoom Plaform is used to take Live sessions of entire class as well as Project group students. <br><br> 2) **Developing e-content/study material & share with students:** Entire e-content/Study Material is Prepared by self and Shared/Posted on online Google Virtual classroom time to time. <br><br> 3) **Assess assignments/Tests/Mini Projects time to time:** All the Assignments/Tests/Quiz/Crossword Solutions received are seen on online Google Virtual classroom. It will be assessed after receiving the hard copy from all students. <br><br> 4) **Read Good Books & Research Papers: Reading the following books for writing and publishing the Sci indexed paper:** <br><br> "Network Modeling and Simulation A Practical Perspective", Wiley Telecom Publisher, By Mohsen Guizani ; Ammar Rayes ; Bilal Khan ; Ala Al-Fuqaha. <br><br> **In addition, following activities (but not limited to)** <br><br> [1] **Developing e-content/study material:** Entire e-content/Study Material is Prepared by self and Shared/Posted on online Google Virtual classroom time to time. |

[2] **Assessing assignments/Tests/Mini Projects:** All the Assignments/Tests/Quiz/Crossword Solutions received are seen. It will be assessed after receiving the hard copy from all students.

[3] **Sponsored projects:** MODROB Project is undertaken and and is in Process. Daily Activities carried out are mentioned in daily report given below.

[4] **Good Publications:** R&D publication for SCI indexed Paper writing is in process. Day to day progress is mentioned in the daily report.

[5] **Writing Articles:** It is in Process. For writing Article on COVID-19 Vaccines, Few more articles are downloaded and reading and understanding it. Day to day progress is mentioned in the daily report.

[6] **Value addition/Development plan (for Functional Heads, HoDs)**

**etc.:** InC Action Plan Approval and Execution as Per Principal Directives. InC documentation preparation and file completion for ISO. Measurable outcome will be Contribution to Flagship event of PICT, and making it Successful.

InC 2020 Action Plan is prepared and already sent to Principal sir for Approval and waiting for Execution as Per Principal Directives and Normalcy Situation.

# DAY WISE ACTIVITIES IN DETAIL

| Date | Activities carried out |
|---|---|
| 06/04/20 (Monday) | 1. **Assignment6** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. <br><br> 2. **Assignment7** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. <br><br> 3. **FORMAT for Report for AICTE funded project under Modrob for yearly submission is being prepared.** |

| | |
|---|---|
| | 4. **R&D publication for SCI indexed Paper is in process.** |
| | 5. **For Internet Traffic identification, WEKA tool is downloaded and installed.** |
| | 6. **It is also relearned from Survey of Network Traffic Models that The Failure of Poisson Modeling is mentioned in few research papers.** |
| | 7. **For writing Article on COVID-19 Vaccines, Few more articles are downloaded and started reading it. Just learned that, Viruses exhibit rapid mutational capacity to trick and infect host cells, ie what applicable to SARS-CoV-2.** |
| 07/04/20 (Tuesday) | 1. **Quiz4** and related learning material is posted on online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. Assignment7 related preparation (Reading and Slides preparation) is done so it can be posted next day on Google classroom for TE-V class (ITCCN) |
| | 2. **Zoom Plaform Based 2 back to back session conducted** after 5 minutes interval gap  and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. Assignment8 related preparation (Reading and Slides preparation) is done so it can be posted next day on Google classroom for BE Elective class (AVE) |
| | 3. **FORMAT for Report for AICTE funded project under Modrob for yearly submission is being prepared.** |
| | 4. **R&D publication for SCI indexed Paper is in process.** |
| | 5. **For Internet Traffic identification, WEKA tool Options are being checked and studied for further analysis.** |
| 08/04/20 (Wednesday) | 1. **Assignment7** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |

| | |
|---|---|
| | 2. **Assignment8** and related learning material is posted on Online Google Virtual classroom for BE class (AVE). Also few queries for specific students are discussed in detail. <br><br> 3. **R&D publication for SCI indexed Paper is in process.** <br><br> 4. **IDM and DAP related traffic datsets are downloaded and are being processed for features calculations in the process of Traffic identification.** <br><br> 5. Searching for datasets used by other researchers and Accordingly, Literature survey for the same is also in process. **Newly downloaded papers are being read for the same.** |
| 09/04/20 (Thursday) | 1. **Zoom Plaform Based Lecture session is conducted** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. Appeal is done to ask the doubts for all units and all assignments submitted till date. <br><br> 2. **Crossword Word Search Problem2A(Part-1) based on Storage Devices** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. <br><br> 3. **R&D publication for SCI indexed Paper is in process.** <br><br> 4. **While processing the standard datasets of few identified application it is learned that their behavior is changing for different standard sets of same protocol. It is becaused though it is standard dataset, the environment (hardware and software) for preparing the datasets were different.** <br><br> 5. **For writing Article on COVID-19 Vaccines, Few more articles are downloaded and started reading it. It is Just learned that, Scientist who claims** |

| | |
|---|---|
| | coronavirus came from SPACE by meteor says prevailing winds are spreading the disease to the hardest-hit countries [Ref3].<br><br>• The bizarre claim was made by astrobiologist Chandra Wickramasinghe (*Director of the Buckingham Centre for Astrobiology, University of Buckingham-United Kingdom)*<br>• A meteor was spotted burning up in the sky over China on October 11, 2019<br>• The scientist said prevailing winds are spreading COVID-19 in 40–60° latitudes<br><br>**Very interesting proofs he has posted on following link [Ref3].**<br><br>Professor Wickramasinghe has previously suggested that other deadly diseases came from an extraterrestrial source — including the 1918 flu pandemic, certain strains of mad cow disease and polio, and SARS, which he connected to a 2002 meteorite that exploded over the border of China and Russia.<br><br>'There is growing evidence that says this DNA comes from space and it is carried into our atmosphere on micro-meteorites before dissipating,' he told The Express.<br><br>*[REF3]*<br>https://www.dailymail.co.uk/sciencetech/article-8104085/Scientist-claimed-coronavirus-came-SPACE-says-prevailing-winds-spreading-disease.html<br><br>*Astrobiologist Prof. Chandra Wickramasinghe Director of the Buckingham Centre for Astrobiology, University of Buckingham; Honorary Professor, University of Buckingham; Visiting Professor, University of Peradeniya, Sri Lanka; Board Member and Director of Research, Institute for the Study of Panspermia and Astroeconomics.* |
| 10/04/20 (Friday) | 1. **ITCCN CROSSWORD PUZZLE 2** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail.<br>2. **Next Crossword puzzle** related preparation is done so it can be posted next day on Online Google Virtual classroom for TE-V class (ITCCN). |

| | |
|---|---|
| | 3. **Zoom Plaform Based Lecture session is conducted** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. Appeal is done to ask the doubts for all units and all assignments submitted till date<br><br>4. **R&D publication for SCI indexed Paper is in process.**<br><br>5. **Solution was proposed by different researchers that statistical functions should be applied on the datasets to be processed so that uniform results can be observed for standard datsets made available internationally. This is observed for the datasets made available by Stanford University.**<br><br>6. **Accordingly, New papers downloaded and are being read for the same.**<br><br>7. **As we have studied to define the different models like Gaussian, Laplacian and Uniform distribution model for Noise, Same models are being tested for several internet traffic protocols. Specially for HTTP traffic, the maximum research is is being carried out because of its largest contribution on the internet.** |
| 11/04/20 (Saturday) | 1. **ITCCN CROSSWORD PUZZLE 3** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail.<br><br>2. **Crossword Word Search Problem2B(Part-2) based on Storage Devices** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail.<br><br>3. **R&D publication for SCI indexed Paper is in process.**<br><br>4. **It is learned that statistical functions like Mean and Standard deviation are dominant and must be be applied on the datasets to be processed.** |

5. For network traffic modelling it is learned that Heavy tailed distributions are potentially representing the behavior of HTTP and P2P traffic on the Internet. Acoordingly, the I am searching the further research contribution done by other researchers.

6. For writing Article on COVID-19 Vaccines, Few more articles are downloaded and started reading it. It is Just learned that, The Earth being bombarded by clouds of organic molecules and also claimed of concerning octopuses are alien [Ref1].

[Ref1] https://www.express.co.uk/news/science/958247/alien-octopuses-cephalopods-earth-outer-space-aliens-cryopreserved-eggs-cambrian-explosion.

7. Recently, in the journal of Astrobiology, a scientists from the America and Japan postulated that viruses may be spread across interplanetary space [Ref2]

[Ref2] Aaron J. Berliner, Tomohiro Mochizuki and Kenneth M. Stedman, "Astrovirology: Viruses at Large in the Universe", Published Online:1 Feb 2018, https://doi.org/10.1089/ast.2017.1649

_____
JAISWAL R.C.
Dept. of E&TC, PICT, PUNE.

17/04/2020

To,
The Principal,
PICT,Pune.

1. **WEEKLY REPORT FOR WORK FROM HOME &LEARN FROM HOME MODEL**
**(13/04/2020 TO 17/04/2020)**

2. **WEEKLY REPORT FOR R&D WORK/DEPT AND INSTITUTIONAL**
**RESPONSIBILITIES**
**(13/04/2020 TO 17/04/2020)**

**Mandatory work as per Principal Directives:**

1) **Conduct online classes:** online Google Virtual classroom was created on 18th March and Since that day it is is being used for "WORK FROM HOME &LEARN FROM HOME MODEL", till date. Also, Zoom Plaform is used to take Live sessions of entire class as well as Project group students.

2) **Developing e-content/study material & share with students:** Entire e-content/Study Material is Prepared by self and Shared/Posted on online Google Virtual classroom time to time.

3) **Assess assignments/Tests/Mini Projects time to time:** All the Assignments/Tests/Quiz/Crossword Solutions received are seen on online Google Virtual classroom. It will be assessed after receiving the hard copy from all students.

4) **Read Good Books & Research Papers: Reading the following books for writing and publishing the Sci indexed paper:**

"Network Modeling and Simulation A Practical Perspective", Wiley Telecom Publisher, By Mohsen Guizani ; Ammar Rayes ; Bilal Khan ; Ala Al-Fuqaha.

**In addition, following activities (but not limited to)**

[1] **Developing e-content/study material:** Entire e-content/Study Material is Prepared by self and Shared/Posted on online Google Virtual classroom time to time.

[2] **Assessing assignments/Tests/Mini Projects:** All the Assignments/Tests/Quiz/Crossword Solutions received are seen. It will be assessed after receiving the hard copy from all students.

[3] **Sponsored projects:** MODROB Project is undertaken and and is in Process. Daily Activities carried out are mentioned in daily report given below.

[4] **Good Publications:** R&D publication for SCI indexed Paper writing is in process. Day to day progress is mentioned in the daily report.

[5] **Writing Articles:** It is in Process. For writing Article on COVID-19 Vaccines, Few more articles are downloaded and reading and understanding it. Day to day progress is mentioned in the daily report.

[6] **Value addition/Development plan (for Functional Heads, HoDs)**

**etc.:** InC Action Plan Approval and Execution as Per Principal Directives. InC documentation preparation and file completion for ISO. Measurable outcome will be Contribution to Flagship event of PICT, and making it Successful.

InC 2020 Action Plan is prepared and already sent to Principal sir for Approval and waiting for Execution as Per Principal Directives and Normalcy Situation.

# DAY WISE ACTIVITIES IN DETAIL

| Date | Activities carried out |
|---|---|
| 13/04/20 (Monday) | 1. **ITCCN CROSSWORD PUZZLE 4** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. 2. **Zoom Plaform Based Lecture session is conducted** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few |

| | |
|---|---|
| | queries for specific students are discussed in detail. Appeal is done to ask the doubts for all units and all assignments submitted till date.<br><br>3. **Crossword-Word Search Problem3A_(First Part on TV / Video Equipment)** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail.<br><br>4. **Zoom Plaform Based (Back to back 2 Meetings) sessions were conducted/Hosted as Departmental coordinator for Research Publications/ IPR/ funded projects.**<br><br>5. **All associate Professors and Professors were** asked to discuss the **Progress of** the above activities wrt to submitted **action plan** for the same**.**<br><br>6. As per **Directives** from **Principal Sir, PhD staffs, but not the associate professors** are also added to list to keep on contributing for above activities**.**<br><br>7. **Regarding IPR, Policies are explained** as displayed on IPR Cell website of PICT**,** and clearly told that**, Number of patents are not important but Revenue generating patents are Important** and will be funded by PICT only after interviewed by Principal, PICT**.** |
| 14/04/20 (Tuesday) | 1. **Quiz5** and related learning material is posted on online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail.<br><br>2. **Crossword-Word Search Problem3B (Second Part on TV / Video Equipment)** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail<br><br>3. **R&D publication for SCI indexed Paper is in process.** |

| | |
|---|---|
| | 4. It is learned that other statistical functions like Min, Max and q1 and q3 calculations are found useful and must be be applied on the datasets to be processed. |
| | 5. Also It is learned that accuracy of Identification increases as number of features processed from dataset increases. But speed decreases accordingly and system fais for Real time data analysis. |
| | 6. Few Authors are talking about predominant features and related research needs to be carried out immediately for fast developing Network system which are being evolved with high risk of intrusion. |
| 15/04/20 (Wednesday) | 1. **ITL Documents prepared**, posted on **Online Google Virtual classroom for** TE-V class (ITCCN). Feedback in standard template is Collected by **preparing Google form** and collecting the responses from them. Also few queries for specific students are discussed in detail. |
| | 2. **Zoom Plaform Based session is conducted** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. Appeal is done to ask the doubts for all units and all assignments submitted till date. |
| | 3. **ITL Documents prepared**, posted on **Online Google Virtual classroom for B**E class (AVE). Feedback in standard template is Collected by **preparing Google form** and collecting the responses from them. Also few queries for specific students are discussed in detail. |
| | 4. **R&D publication for SCI indexed Paper is in process.** |
| | 5. **It is learned that heavy-tailed distributions are probability distributions whose tails are not exponentially bounded: that is, they have heavier tails** |

| | |
|---|---|
| | than the exponential distribution. For large value of X, the probability of occurrence is greater than Exponential distribution.<br><br>6. **For example Weibull and Pareto distributions are heavy-tailed probability distributions.**<br><br>7. **Few more papers are being searched with more practical results for the same.** |
| 16/04/20 (Thursday) | 1. The final **ITL documents are submitted to Departmental Coordinator and HOD** as necessary records for TE-V class (ITCCN).<br><br>2. **SPPU end sem paper is posted** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail.<br><br>3. The final **ITL documents are submitted to Departmental Coordinator and HOD** as necessary records for BE ELECTIVE class (AVE).<br><br>4. **Zoom Plaform Based (Back to back 2 Meetings) sessions were attended** regarding 100% syllabus coverage, preparing 100 MCQ and one sentence QA, internal assessments(TH & PR), Preparing and sending own video lectures to students and online mock examination conduction**.**<br><br>5. This meeting was **with HOD, all TE E&TC CC, TE SC and TE subject teachers.**<br><br>6. **Zoom Plaform Based Meeting session was attended** among Subject coordinator of ITCCN subject and all subject teachers, where different points were discussed like**...**syllabus coverage and study material distribution, preparing 100 MCQ and one sentence QA and related Unit wise contribution/Distribution, internal assessments(TH & PR) plan for ITCCN, Preparing and sending the related plan and suggestions to HOD E&TC.<br><br>7. **R&D publication for SCI indexed Paper is in process.** |

| | |
|---|---|
| | 8. **If large datasets are processed for initial features calculations, then huge time is required for processing, sometimes Machine gets hanged.** |
| 17/04/20 (Friday) | 1. **SPPU end sem paper are posted** and related learning material is posted on Online Google Virtual classroom for TE-V class (ITCCN). Also few queries for specific students are discussed in detail. |
| | 2. **SPPU end sem paper are posted** and related learning material is posted on Online Google Virtual classroom for BE ELECTIVE class (AVE). Also few queries for specific students are discussed in detail. Appeal is done to ask the doubts for all units and all assignments submitted till date. |
| | 3. **Zoom Plaform Based Meeting session was attended** regarding 100% syllabus coverage, preparing 100 MCQ and one sentence QA, internal assessments(TH & PR), Preparing and sending own video lectures to students and online mock examination conduction. |
| | 4. This meeting was **with HOD, all BE E&TC CC, BE SC and BE subject teachers.** |
| | 5. **R&D publication for SCI indexed Paper is in process.** |
| | 6. **Trying to divide the Large datasets into chunks to avoid hanging process of Machine, but I am afraid of data loss which can occur because of discontinuity of few parameters like arrival time and inter arrival time of fast and linked arriving packets..** |
| | 7. **Accordingly, New papers downloaded and are being read for the same.** |
| | 8. **For writing Article on COVID-19 Vaccines, Few more articles are downloaded and started reading it. It is Just learned that, Plasma therapy uses a blood component called plasma -- which contains the virus-fighting antibodies -** |

from people who have recovered from the covid-19 infection to treat those who are severely ill with Covid-19.

9. When the virus enters the human body, the immune system creates an antibody to fight it. This antibody remains in a person even after the virus has cleared out of their system. In the absence of other drugs, experts say that using these antibodies from recovered patients can offer a reprieve to severely ill Covid-19 patients.

10. Plasma therapy is already being used for viral infection such as hepatitis or even chicken pox that can be severe in immuno-compromised patients; for autoimmune disorders, and conditions like haemophilia in which the people receive proteins other than antibodies.

_____
**JAISWAL R.C.**
**Dept. of E&TC, PICT, PUNE.**

25/04/2020

To,
The Principal,
PICT,Pune.

1. **WEEKLY REPORT FOR WORK FROM HOME &LEARN FROM HOME MODEL**
   **(20/04/2020 TO 25/04/2020)**

2. **WEEKLY REPORT FOR R&D WORK/DEPT AND INSTITUTIONAL**
   **RESPONSIBILITIES**
   **(20/04/2020 TO 25/04/2020)**

---

**Mandatory work as per Principal Directives:**

1) **Conduct online classes:** online Google Virtual classroom was created on 18th March and Since that day it is is being used for "WORK FROM HOME &LEARN FROM HOME MODEL", till date. Also, Zoom Plaform is used to take Live sessions of entire class as well as Project group students. If required, in view of Practical exam and Theory Exams, Discussions will be continued for difficulties/Problems of the students on Mail/Voice call/Net meeting **for regular and backlog students as per zero backlog policy as per Management directives** and as per zoom meeting conducted by HOD sir.

2) **Developing e-content/study material & share with students:** Entire e-content/Study Material is Prepared by self and Shared/Posted on online Google Virtual classroom time to time. **Making and Providing New Videos/ learning material PPTs/Notes** is also in process in view of Practical exam and Theory Exams, Discussions of difficulties/Problems with the students on Mail/Voice call/Net meeting etc.

3) **Assess assignments/Tests/Mini Projects time to time:** All the Assignments/Tests/Quiz/Crossword Solutions received are seen on online Google

Virtual classroom. It will be assessed after receiving the hard copy from all students. Also, All the Assignments/Tests and related queries will be attended If required, **in view of Practical exam and Theory Exams, Discussions will be continued for difficulties/Problems of the students** on Mail/Voice call/Net meeting etc.

4) **Read Good Books & Research Papers: Reading the following books for writing and publishing the Sci indexed paper:**

"Network Modeling and Simulation A Practical Perspective", Wiley Telecom Publisher, By Mohsen Guizani ; Ammar Rayes ; Bilal Khan ; Ala Al-Fuqaha.

**In addition, following activities (but not limited to)**

[1] **Sponsored projects:** MODROB Project is undertaken and and is in Process. Daily Activities carried out are mentioned in daily report given below.

[2] **Good Publications:** R&D publication for SCI indexed Paper writing is in process. Day to day progress is mentioned in the daily report.

[3] **Writing Articles:** It is in Process. For writing Article on COVID-19 Vaccines, Few more articles are downloaded and reading and understanding it. Day to day progress is mentioned in the daily report.

[4] **SPPU Exam Work**: Setting 100 MCQ and one line Questions For ITCCN Subject (TE E&TC)  in view of Practical exam and Theory Exams is in Process. Also calculating the TW calculations as per policies and directives of HOD/Principal PICT is in Process.

[5] **SPPU Exam Work**: Setting 100 MCQ and one line Questions For AVE Subject (BE E&TC) in view of Practical exam and Theory Exams is in process.

[6] **Value addition/Development plan (for Functional Heads, HoDs)etc.:** InC Action Plan Approval and Execution as Per Principal Directives. InC documentation preparation and file completion for ISO. Measurable outcome will be Contribution

| | |
|---|---|
| | to Flagship event of PICT, and making it Successful. InC 2020 Action Plan is prepared and already sent to Principal sir for Approval and waiting for Execution as Per Principal Directives and Normalcy Situation. |

# <u>DAY WISE ACTIVITIES IN DETAIL</u>

| <u>Date</u> | <u>Activities carried out</u> |
|---|---|
| 20/04/20 (Monday) | 1. **MCQs and one line Questions for ITCCN subject** for TE-V class (ITCCN) in view of Practical exam and Theory Exams is in Process. Also few queries about ITCCN subject for specific students are discussed in detail. (Online Google Virtual Classroom/Mails/Whatsapp/Voice call).<br><br>2. **Zero backlog policy implementation** was reminded with **zoom meeting of HODs** and class coordinators/Subject coordinators. In view of this, the **Email IDs/Mobile Numbers/Whats App number is searched of students with backlog for further communication.**<br><br>3. Appeal is done on Online Google Virtual classroom for TE-V class (ITCCN) as well as BE Class (AVE) to ask the **doubts for all units and all assignments** submitted till date.<br><br>4. **R&D publication for SCI indexed Paper is in process.** Mathematical modelling and Internet traffic identification related book is being read for further |

| | |
|---|---|
| | understanding. Reading and reviewing of conference and journal papers is in process. Downloading of new papers from the various resources as per requirement is in process. Dataset downloading, preprocessing and feature calculation is in process. Based on above Novel and accurate mathematical modelling can be done for supporting novel real time internet traffic identification. |
| 21/04/20 (Tuesday) | 1. **MCQs and one line Questions for ITCCN subject** for TE-V class (ITCCN) in view of Practical exam and Theory Exams is in Process.<br><br>2. **IPR session conducted by Principal, PCCOE (Dr. H. U. Tiwari)** is attended. It was hosted on Facebook page formed/hosted by Pimpri Chinchwad Education Trust on social networking site with related login. **It was very interesting and informative**.<br><br>3. **R&D publication for SCI indexed Paper is in process.** Mathematical modelling and Internet traffic identification related book is being read for further understanding. Reading and reviewing of conference and journal papers is in process. Downloading of new papers from the various resources as per requirement is in process. Dataset downloading, preprocessing and features calculation is in process. Based on above Novel and accurate mathematical modelling can be done for supporting novel real time internet traffic identification. |
| 22/04/20 (Wednesday) | 1. **MCQs and one line Questions for ITCCN subject** for TE-V class (ITCCN) in view of Practical exam and Theory Exams is in Process. Also few queries about ITCCN subject for specific students are discussed in detail. (Online Google Virtual Classroom/Mails/Whatsapp/Voice call). |

| | |
|---|---|
| | 2. **Zero backlog policy implementation is initiated.** In view of this, feedback document with nine point questionarie and Support Required from the Department is asked to them. It is communicated to them on their Email IDs/Mobile Numbers/Whats App number, **which were searched for further communication.** <br><br> 3. Support Required from the Department **is asked as follows :(Extra Lectures/Counseling/Address Difficulties on specific topics/Lab Sessions/Learning Material/Lecture Notes/Reference Books/etc )** <br><br> 4. **As per HODs directives**, it was discussed in zoom meeting to work upon the assessment and TW calculations. **Accordingly, the planning** for TW calculations as per policies **is in Process**. |
| 23/04/20 (Thursday) | 1. **Assignment** related queries were asked on Online Google Virtual classroom from BE ELECTIVE class (AVE) student. Those queries for specific students are discussed and solved accordingly. <br><br> 2. **MCQs and one line Questions for AVE subject** for BE Elective class in view of Practical exam and Theory Exams is in Process. For this books were required. Few Ecopies are available with me and few books copies and **related links were requested from PICT Library staff (Kale Sir/Milind Phadke sir).** Accordingly **they provided** me all the available online links and online resources required. <br><br> 3. **Few important books are** downloaded which are **facilitated at free of cost** by various digital libraries/publishers because of this **Covid-19 outbreak. Few research papers were** also accessible at **free of cost** and downloaded from those sites**.** <br><br> 4. **R&D publication for SCI indexed Paper is in process.** Mathematical modelling and Internet traffic identification related book is being read for further |

| | |
|---|---|
| | understanding. Reading and reviewing of conference and journal papers is in process. Downloading of new papers from the various resources as per requirement is in process. Dataset downloading, preprocessing and feature calculation is in process. Based on above Novel and accurate mathematical modelling can be done for supporting novel real time internet traffic identification. |
| 24/04/20 (Friday) | 1. **As per HODs directives**, it was discussed in zoom meeting to work upon the assessment and TW calculations. **Accordingly, the planning** for TW calculations **is done. Finalized** Policy plan for calculating the TW for BE students is mailed to HOD. This is submitted for further suggestions, guidelines and approval from HOD Sir.<br>2. **Commitment is done for Developing E-content/study material & sharing it with students:** Accordingly, **Making and Providing New Videos** is also in process in view of Practical exam and Theory Exams.<br>3. Few professional tools are downloaded for the **Developing E-content/study material**. They are downloaded and configured for further processing.<br>4. **Zero backlog policy implementation:** In view of this, feedback documents from few students(backlog) **is asked to submit. It is reminded again about any support required from Class teachers of the same subjects**.<br>5. It is communicated to them on their Email IDs/Mobile Numbers/Whats App number, which were searched for further communication. |
| 25/04/20 (Saturday) | 1. **Zero backlog policy implementation: Few students have replied with feedback form.** Accordingly **we will process** the requirements. **For remaining we** |

**are communicating** on their Email IDs/Mobile Numbers/Whats App number, which were searched for further communication**.**

2. **R&D publication for SCI indexed Paper is in process.** Mathematical modelling and Internet traffic identification related book is being read for further understanding. Reading and reviewing of conference and journal papers is in process. Downloading of new papers from the various resources as per requirement is in process. Dataset downloading, preprocessing and feature calculation is in process. Based on above Novel and accurate mathematical modelling can be done for supporting novel real time internet traffic identification.

3. **Leader's Speak-lockdown Series-Intellectual Property Rights(IPR) and patent filing process", session conducted by Principal, PCCOE (Dr. H. U. Tiwari)** is attended. It was hosted on  Facebook page formed/hosted by Pimpri Chinchwad Education Trust on social networking site with related login. **It was very interesting and informative**.

_____
**JAISWAL R.C.**
**Dept. of E&TC, PICT, PUNE.**