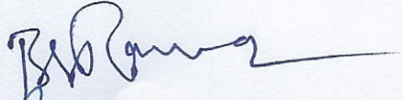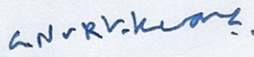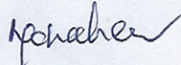25/01/2024,

Vadlamudi

Minutes of Meeting of the Advisory Committee for Technology Development of VFSTR

Attendees:

Dr. B.Seetharamanjaneyulu	-	Chairman	*(signature)*
Dr. Y.Ravi Sekhar	-	Convenor	*(signature)*
Prof.Bheemarjuna Reddy	-	External Member	(online)
Dr. S. Venkatesan	-	External Member	(online)
Dr.B.S. Sanjeev	-	External Member	(online)
Dr. N.V.R.Vikram	-	Invitee	*(signature)*
Mr. B. Naga Sudheer	-	Invitee	*(signature)*

Date & Time of the Meeting: 25-01-2024; 2PM to 4PM

Agenda:

1. Progress of last One year

   ➤ Improvements in Hardware Infrastructure

   ➤ Ongoing activities of in-House Software Development

   ➤ Initiation and progress of deploying ERP systems and in-house developed software for it

2. Planned activities for Next One Year

   ➤ Providing Remote access to the laboratories of the VFSTR through secure VPN

   ➤ Upgradation of CCTV surveillance

   ➤ Creation of Private Cloud Network

   ➤ Creation of Augmented and Virtual Reality Labs

   ➤ Redesigning the ERP software through latest frameworks for scalability

   ➤ Mobile Application development for all stake holders

   ➤ Development of cyber security tools through student projects

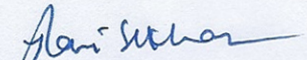3. Any Other Point with Permission of Chair

Minutes of the meeting:

Sl No	Item	Notes
1	Progress of last One year	Presented by Dr.Y.Ravi Sekhar, Dean TD, about the progress made in the last one year in terms of Hardware infrastructure, software development and the initiatives taken to develop the software with the help of students through the TD – Honors programme. • Committee members were appreciative of this initiative and Prof.Bheemarjuna Reddy has cautioned about the possible backdoor entry attacks by the students to manipulate the data and code reviews need to be done before the code is integrated with applications.

2	Planned activities for Next One Year	i. Creation of Domains for various departments and users.
		  a. Suggested to create a separate domain for giving access to outside computers with a concept of 'Bring your own device' and make a software policy update that VFSTR will not be responsible for any pirated software emanating from those domains.
		ii. Providing the Remote access to the laboratories of the VFSTR through secure VPN Access to both faculty and researchers
		  a. Suggested to explore Wireguard VPN (Open Source) tool
		  b. Cautioned about spying of free remote display tool
		  c. Dr.NVR Vikram will contact Dr. Sandeep and Dr.Venkatesan for identifying the right GUI based remote access for HPC
		iii. Upgradation of CCTV surveillance and storage of Video data
		  a. Suggested to have in-built VMS and depending on the surveillance requirement, storage should be decided and NAS may be used.
		  b. Regarding the surveillance we can contact Dr.Javed, R&D, Bureau of Delhi for further help.
		
		iv. Creation of Private Cloud Network and providing services to all the faculty and students of VFSTR
		  a. Lot of scope for Private Cloud network research.
		  b. Keeping the data at different locations for Disaster recovery is a good idea
		v. Creation of Augmented and Virtual Reality Labs
		  a. IIT Dharwad has a good AR/VR lab and can visit that place.
		  b. It needs High end Computer as well as Good N/W Infrastructure
		vi. Mobile Application development for all stake holders – Students, Faculty, Parents, Support Functionaries and Management
		  a. Suggested that Web applications for various web browsers is better than developing multiple Mobile applications.
		vii. Development of cyber security tools

		a. Suggested that the software evidence tampering mechanisms should be in place such as verification of digital signature before and after updation of data.

Dr. B. Seetha Ramanjaneyulu   Dr. Y. Ravi Sekhar