



4.3.1 B Technical upgradation of IT facilities including Wi-Fi (Qualitative)

SR.NO	DESCRIPTION	TECHNICAL UPGRADATION
1.	Classroom with ICT	<ol style="list-style-type: none">1. Each ICT classroom has a projector , screen , connection with multimedia of a PC or Laptop2. The projector are having technically upgraded LED or laser light sources , which have a longer lifespan and more eco- environmental friendly3. The projector is technically upgraded with DLP or LRD technology , DLP is the most common and advanced technology which provides a range of applications .4. The upgraded projectors are having Brightness, Size , height and distinct advanced features .
2.	Seminar hall with ICT	<ol style="list-style-type: none">1. Seminar hall / Multipurpose hall with ICT can be used to create an Interactive learning experience for students which is an interactive experience for teachers . They can be used to show presentations, videos, infographics and other information2. Technically it is upgraded and maintained to show notes digitally , compatible with the wide range of media formats and software solutions . Its technical upgradation helps teachers , users to incorporate a variety of resources into their lessons3. Technically ICT enabled seminars/ Multipurpose hall is with projections of audio-video , images from a blu – ray player with amplification of sound , music and images



University of Mumbai

NIRMALA COLLEGE OF COMMERCE

Municipal School Bldg., Rani Sati Marg, Malad (East), Mumbai - 400 097. • Tel.: 2844 1083

3.	Number of PCs in Library	<ol style="list-style-type: none">1. Upgraded ICT with ILMS in the library which makes the library system as automation.2. Library with upgraded PCs reduce the workforce , accelerate library services ,automate library processes , such as cataloging , circulation and serial management .3. Technical – upgradation of ICT facilities in library reduce the libraries manual applications and improve the library workflow .4. Library being knowledge center , knowledge resources , technical ICT assistant improves library and librarian to locate, store, retrieve and share the Knowledge – information .5. Remote access in progress for the teachers learners in the near futures . the upgradation of ICTs in library is under thought process of execution . The remote access helps the uses demand his / her places , reduces the barriers like time duration . infrastructure availability , infrastructure provision .
4.	No . of PCs in E-Library	<ol style="list-style-type: none">1. E-Library is upgraded technical continuously in HEI such as upgradation of LAN , WAN , Wi-Fi facilities , PCs, configurations, PCs number and user devices and many more.2. Upgraded computer devices provided the speedy download , storage ,available such as E-books , E-journals , E-learners , Electronic Database, E-papers , digital archives .3. Technical upgraded ICT E –library such as to digital services , library networks and websites , virtual conferences and virtual helpdesks.4. E- library technically upgraded with LAN – local area network to connect devices- PCs in a single location to share resources and




I/c Principal
Dr. Umeshchandra Yadav



University of Mumbai

NIRMALA COLLEGE OF COMMERCE

Municipal School Bldg., Rani Sati Marg, Malad (East), Mumbai - 400 097. • Tel.: 2844 1083

		communicate the mentors ,mentee, group of teachers , group of students
5.	No. of Wi-Fi devices	<ol style="list-style-type: none">1. Wireless network watcher Router settings ,IP address devices, portable tools for windows, browser , address bar, attached devices (client list) updates the Wi-Fi security2. High speed data transfer is well suited in campus , classrooms amongst the teachers , students by the technically advanced Wi-Fi .3. Technical advancement in Wi-Fi is for the backup and disaster recovery using the Ethernet , Wi-Fi or both.4. Modems, plays, with open part , routers and d-link upgraded technological devices kept to update the technology in college campus .
6.	Wi-Fi (Internet) speed	<ol style="list-style-type: none">1. HEI on toes to upgrade , update and maintain the Wi-Fi internet speed .2. The updated Wi-Fi technology setup in HEI is with multiple options such as computers , Laptops, Mobile devices , smartphone and wearables of advance grades.3. Wi-Fi (internet) technically maintained to send radio-signal from a wireless router to a reality devices, which translates the signal into data which one can see and use in educational applications




I/c Principal
Dr. Umeshchandra Yadav



University of Mumbai

NIRMALA COLLEGE OF COMMERCE

Municipal School Bldg., Rani Sati Marg, Malad (East), Mumbai - 400 097. • Tel.: 2844 1083

7.	Wi-Fi Services	<ol style="list-style-type: none">1. HEI upgraded Wi-Fi services which is Secure2. Technical updated Wi-Fi is IEEE 802.11x standard3. The technically upgraded Wi-Fi service is a wireless networking technology . It has high grade radio waves with equally high grade router. It broadcasts the Wi-Fi signal to all connected devices.4. Wireless (Wi-Fi) with advanced technical upgradation can be multi devices .It can be used to connect to connect computers in very high speed .
8.	Wi-Fi facilities	<p>Technical upgradation of Wi-Fi facilities are in almost in Admin office , Library and computer Laboratory . Wi-Fi technical upgradation facilities extends the equipment , connection and service provided to users, in the carriers vehicles by way of access to an installed Wi-Fi network that is connected to network</p> <p>Admin office , Library and computer Laboratories are in location where maximum use of Internet is expected. The LAN may provide the internet connections with better speed to PCs devices. However , Laptops, smart phones are indispensable devices, handy devices with users .These devices can access the Wi-Fi facilities by the proper password from concern authorities for the security purpose</p>
9.	Computer Laboratory	<p>HEI has technically upgraded computer Laboratory. It has 44 PCs which are having the interconnected by LAN . These is free access of Wi-Fi connections as alternatively to the internet connections .</p>




I/c Principal
Dr. Umeshchandra Yadav



University of Mumbai

NIRMALA COLLEGE OF COMMERCE

Municipal School Bldg., Rani Sati Marg, Malad (East), Mumbai - 400 097. • Tel.: 2844 1083

		<p>Technical upgradation in computer laboratory as-</p> <p><u>Hardware</u> – HEI has video cards speed and memory secondary storage and input devices of 4G/5G</p> <p><u>Software</u> – Advanced programmes such as Adobe creative , Cloud suite , Microsoft office suite, SAS, Maple.</p> <p><u>Networking</u> – A10/100 Ethernet card is used as technical upgradation .</p> <p><u>Multimedia</u> – The sound card speakers , headphones and microphones are of standard version applied in computer laboratory</p> <p>Reliable power supply , Lab is free from dust and moisture , good ventilation and enough standard furniture are in computer laboratory as a part of technical upgradation .</p>
10.	Computers in computer laboratory	Computer hardware components upgraded to enhance a computer performance processor . A more powerful processing chip with a more efficient design can significantly improve a system’s computing speed and overall performance .
11.	Softwares	<p>Application software (Word processors, spreadsheets, email, clients and web browsers) are upgraded.</p> <p>Operating systems- Windows, macOS, Linux, computer memory, CPU, printer , hard disk , Apple etc are involved</p> <p>Language processors – Middleware Programming software are applied in HEI as ICT upgraded tools.</p>




I/c Principal
Dr. Umeshchandra Yadav