



**YENEPOYA**

(DEEMED TO BE UNIVERSITY)

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*2.3.3 Teachers use ICT-enabled tools for effective teaching and learning process, including online e-resources*

## **Details of ICT-enabled tools used for teaching and learning**

ATTESTED

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### ICT Enabled tools for teaching and learning

Sl.No.	Tools	Number/Description
<b>DIGITAL INFRASTRUCTURE TOOLS AVAILABLE</b>		
1.	Laptops (Faculty)	95
2.	Laptops (Student)	2236
3.	Computers	801
4.	Printers	225
5.	Scanners	60
6.	LCD Projectors	165
7.	Smart boards	77
8.	Information Displays	55
9.	Sound Systems	91
10.	Web Cameras	105
11.	Duplicators	10
12.	Wi-Fi	<ul style="list-style-type: none"><li>• Available bandwidth – 2 GBPS + 200 Mbps.=2.2 Gbps</li><li>• Access points -329+700 =1029</li></ul>
<b>LEARNING MANAGEMENT SYSTEM (LMS) – YENGAGE</b>		
13.	YEGAGE, LMS Users	7664
<b>CLASSROOMS WITH ICT FACILITIES</b>		
14.	Lecture Hall	108
15.	Seminar Hall	38
16.	Demonstration Room	60
<b>LECTURE CAPTURING TOOLS</b>		
17.	Google Suite accounts	11013
18.	Office 365 Accounts	7832
19.	Zoom	01
20.	Microsoft Team	01
<b>SIMULATORS</b>		
<b>Advanced Surgical Skill Enhancement Division (ASSEND)</b>		
21.	Cautery machine (Forcetriad)	01

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Sl.No.	Tools	Number/Description
22.	Anesthesia workstation (Allied Medicals)	01
23.	OT table (Technomed)	01
24.	Insufflator (Stryker)	01
25.	Infusion Pump (Graseby)	02
26.	Cautery machine (Caudra)	04
27.	Microscope table stand (Optofine)	01
28.	Hydraulic trolley (FORCE)	01
29.	Patient warmer (SMITH MEDICAL)	01
30.	Anaesthesia ventilator (ALVEO)	03
31.	Basic anaesthesia (Boyles) machine and apparatus (MEDITECH)	05
32.	Portable blood analyzer (I-Stat)	01
33.	LCD Monitor Laparoscopy (Stryker)	04
34.	LED mobile light (LUX OMEGA)	05
35.	Laparoscopy unit	04
36.	OT Table (Techno med)	05
37.	Patient monitor (Para) (Techno care med systems)	05
38.	Camera HD 3 chip (STRYKER)	04
39.	Multi-parameter monitor (BPL)	01
40.	Insufflator	04
41.	Light source (for the lap camera)	04
42.	DaVinci Si System	01
<b>Advanced Comprehensive Clinical Training and Simulation Centre (ACTSYEN)</b>		
43.	Human patient simulator (HPS)	01
44.	METIMAN	01
45.	Paediatric simulator	01
46.	Infant simulator	01
47.	LUCINA simulator	01
48.	USG-OBG,ECHO	01

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Sl.No.	Tools	Number/Description
49.	CATHLAB	01
50.	Endoscopy VR	01
51.	Laparoscopy VR	01
52.	Otosim	01
53.	Anatontage	01
<b>LIBRARY E-REOURCES</b>		
54.	E-Databases	05
55.	E-Books	1120
56.	E-Journals	1569
57.	CDs/DVDs	1371
58.	Membership (DELNET/National Cancer Grid Consortium)	2
<b>DIGITAL EXPERIMENTAL LABORATORY FACILITIES</b>		
<b>Department of Physiology</b>		
59.	Digital Physiograph – 4 Channels Physio Pac	01
60.	Power Lab- Electrophysiology	01
61.	PFT – Helios 401	01
62.	Multi-channel Physiograph, 3 channels, complete with accessories	02
63.	Student physiograph, (single channel) with accessories	07
<b>Department of Biochemistry</b>		
64.	Densitometer with computer	01
65.	Spectrophotometers	02
66.	Auto analyzers	2
67.	Glucometers	10
<b>Department of Pathology</b>		
68.	Decahead microscope with Digital Camera & Software	01
69.	Semi-automated Rotary microtome	01
70.	Automated Paraffin embedding station	01

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Sl.No.	Tools	Number/Description
71.	Automated Tissue Processor	01
72.	Slide autostainer	01
73.	Cell spin	01
74.	Automated Haematology Analyser	01
75.	Automated ESR	01
76.	Automated Coagulometer	01
77.	Automated urine analyser	01
78.	Phlebotomy chair with blood collection monitor	01
79.	Blood component separator	01
80.	Automated Blood grouping and cross matching	01
81.	Apheresis machine	01
<b>Department of Pharmacology</b>		
82.	Computer assisted learning for animal experiments	Ex- Pharm series Software- used for understanding the importance of experimental pharmacology.
<b>Department of Otorhinolaryngology</b>		
83.	Operating microscope with camera and monitor	01
84.	Endoscope with camera and monitor	02
85.	Microlaryngoscope with 12 degree endoscope	01
<b>Research Centre</b>		
86.	InCyte 2.6	Flow cytometry data analysis software
87.	UV probe	UV Spectrophotometer software
88.	Proteome discoverer 2.2	Orbitrap Mass spectrometry data analysis software
89.	Analyst & Mascot	QTRAP Mass spectrometry data analysis software
90.	Zenlite 2012	Inverted microscope imaging software
91.	Motic Image Plus	Brightfield microscope imaging software
92.	Omega version 5.10	Multimode microplate reader software
93.	Image focus 4	Fluorescence microscope imaging software
94.	UVP	Gel documentation system software

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Sl.No.	Tools	Number/Description
95.	Bio-Rad CFX Manager 3.1	Real Time PCR software
96.	Chrom Card	Gas chromatography software
97.	LUNA-II	Automated cell counter software
98.	Lab Solutions Manager	FT-IR software
99.	FCS Express 7	Fluorescence activated cell sorter software
100	EVOS M5000	Fluorescence imager imaging software
101	Image J	Image quantification software
<b>DIGITAL DIAGNOSTIC LABORATORY FACILITIES</b>		
102	Laboratory information system	It works on Backbone software tool to give information about the various test performed, its status and also report generation
103	Quality Management System and Quality Assurance Department training for laboratory personnel	Laboratory personnel during pandemic years trained online by PPT presentations.
104	CRM in vitros 5600 automated integrated chemistry analyser.	Calls can be logged by technologists in the diagnostic lab by scanning the barcode placed on the instrument
105	E -connectivity system in ortho clinical diagnostics	To monitor the instrument hardware performance and to take the preventive actions before the breakdown and also the updates are automatically downloaded to the instrument.
106	Microsensor technology in ortho clinical diagnostics	To detect the HIT( hemolysed,icteric, turbidity) of the samples for further analysis
107	Yenepoya.healzapp.com	To book home sample collection and also book appointment for sample collection in our facility
<b>DIGITAL TOOLS FOR CLINICAL TRAINING</b>		
108	HIMS (Hospital information and Management Software)	Hospital information and Management system at OPDs and IP wards for digital electronic medical records.
109	Radiology Services	PACS-Access to radiology imaging by the Postgraduates anytime from the archived image repositories.

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Sl.No.	Tools	Number/Description
<b>SOFTWARE</b>		
110	QBMS	Question bank management system
111	Anti plagiarism- Check for Plag/ Urkund	Research support
112	Auto Cad	Construction and projects.
113	Kramah	NAAC accreditation, Analytics software, training and implementation
114	OBE Management	Program outcome, course outcome, mapping, individual student outcome.
115	HR Software	Payroll Leave Management
116	E Track	Biometric Time and attendance for all employees
117	Hikivision surveillance	CCTV Control room surveillance
118	ID SOFT 8.1.18.11	For processing and printing identity cards of students and employees.
119	People link	Video conferencing
120	Issue Tracker	Online issue tracker deployed campus-wide, enabling the reporting and management of the issues, errors and work order at IT, biomedical and maintenance departments.
121	Tally ERP 9.0	Accounting software for managing all the financials of the University.
122	SARAL	Income tax Purpose
123	SIMS	Student Fee management
124	E Track	Biometric attendance tracking for all employees and students using hand held devices in the classrooms for accurate and without waste of lecture hours.
125	SIMS	Student Information Management system: which comprises of student demography right from the admission of a student to student pass out details, including attendance, examination results, course details, the printing of marks cards and financials.
126	YENGAGE	A web-based portal for students and faculty for management of data, files and media for exchange. All digital learning resources are supplied using this portal

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Sl.No.	Tools	Number/Description
127	E-Portfolio	Digital logbook for Postgraduates
128	SPSS Statistical Software	For statistical analysis by students and researchers
129	PACS	Access to radiology imaging by the Postgraduates anytime from the archived image repositories.
130	D Space	Institutional repository of the free full text of PG dissertations submitted by PG students
131	DOLPHIN	Imaging and Management software for 2D/3D Orthodontic imaging, diagnostic, practise management, case presentation and patient education software.
132	Easy Lib	To manage the student library activity and book borrowings.
133	Fortune Next 6.5 Professional	Professional is ideal hotel management software to ensure a higher degree of operational automation at large boutique hotels and resorts. With Fortune NEXT 6.5 Professional at the core of the operation, hotel staff can be free from performing mundane tasks and spend more time attending to their guests.
134	IBM SPSS Modeller	It is a powerful predictive analytics platform that is designed to bring predictive intelligence to decisions made by individuals, groups, systems, and your enterprise.
135	IBM QRadar	Security Information and Event Management (SIEM) helps security teams accurately detect and prioritise threats across the enterprise. It provides intelligent insights that enable teams to respond quickly to reduce the impact of incidents.
136	IBM Security Gardium	Data Protection for Databases provides automated sensitive data discovery and classification, real-time data activity monitoring and cognitive analytics to discover unusual activity around sensitive data.

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Sl.No.	Tools	Number/Description
137	ENDNOTE	Manage bibliographies and references in writing essays and articles.
138	SIMS	Comprises of student demography right from the admission of a student to student pass out details, including attendance, examination results, course details, the printing of marks cards and financials.
139	NAD	24×7 online storehouse of all academic awards viz. certificates, diplomas, degrees, mark-sheets etc.
140	Merit Track	Exam paper scanning and digital evaluation.
141	Zoom	Video Conferencing
142	Microsoft 365 for Education	Outlook, Word, PowerPoint, Excel, Teams and OneNote
143	Google Suit for Education	Gmail, Calendar, Hangouts, Drive, Docs, Sheets, Slides, Google Sites
144	MS SQL Server 2012	Database Management
145	MYSQL 5.2	Database Management
146	Windows Server 2012 R2	Server Operating System
147	Prosys Software	Central Kitchen Billing Software
148	EZ-Proxy	E-Library Remote Access
149	IBT Health Card	Health Card Software
150	Attendance Updater	Student Attendance Synchronization Software
151	My Academic	Assignment/ project management
152	Document Management System	Tracking entire history of file & document
153	CBCT	Cone-beam computed tomography systems for Dental college
154	Ayurveda HMIS	HMIS for Ayurveda Medical college hospital

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Sl.No.	Tools	Number/Description
155	Cad N Mill	To create bridges, veneers, post-and-cores, and implant abutments and restorations in Dental College
156	Radar Opus Superior	Homeopathic is a repository of knowledge for homoeopathic practitioners and students. It is a repository of knowledge for homoeopathic practitioners and students.

**Note:** The equipments listed under the departments/centres use software and computer integration/interface for operation. Hence, these are included in the list of ICT enabled tools for teaching and learning

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