



Web: www.gdcsopore.ac.in

Office of the Principal

GOVT. DEGREE COLLEGE SOPORE



Phone No: 01954222262

No: DCS/2019/

Date:

**The Nodal Principal,
Govt. Womens College,
M.A. Road Srinagar.**

Subject: Digital Classrooms Vision 2020.

Madam,

With reference to the above cited subject, kindly find enclosed herewith the action plan for implementation of Vision Digital Classrooms 2020 in the College for perusal and further necessary action.

Yours Sincerely,

(Prof. Farooq Ahmad Malik)
Principal

Copy to:

1. Nodal Officer Digital Classroom Vision 2020 for information.
2. Office records.



No: DCS/2019/

Date:

Digital Classrooms Vision 2020

Proposed Action Plan: Govt. Degree College Sopore (Boys)

1. To identify courses and subjects where flipped classroom are best suited:

All professional and academic courses preferably Business Administration, Computers Applications, Commerce, Biotechnology, Electronics, Chemistry, Physics, Botany, Zoology, English Language, Soft Skills, and Effective Communication & Personality Development.

2. Estimated number of students that shall be benefitted directly with this:

5200 Students are enrolled in the College and all these will be benefitted every year.

3. Institute Nodal Officer: *Dr. Owais Charag (Assistant Professor Business Administration, Ph.D. Electronic Governance System)*

4. Available Infrastructure:

S No.	Item	YES/NO, if yes specify Number	Remarks
1	Do you have digital/smart boards	YES	<i>10 Interactive White Board Globus Make are installed across various departments in the College</i>
2	Do you have Ethernet LAN connectivity in classrooms?	NO	<i>LAN Network is not available in Classrooms and need to be connected via LAN Cabling or WiFi Link</i>
3	Do you have Server for content streaming?	NO	<i>Server for Live Content Streaming is required</i>
4	Do you have overhead LCD Projectors installed in classrooms?	YES (10)	<i>With interactive boards overhead projectors are also installed for projection purposes.</i>
5	Do you have TV displays in classrooms?	NO	<i>Smart TV Display / Panel is required</i>
6	Do you have Wi-Fi Connectivity?	NO	<i>No WiFi College Campus Network is available in the</i>



No: DCS/2019/

Date:

			<i>College. Jio based offer 1GB Free WiFi is available</i>
7	Do you have Internet Broadband/ Leased line?	YES (Broadband Connections)	<i>01-Admin Section 01-Principal Office 01-Library 01-BBA Deptt.</i>
8	Do you have visualizer in classrooms?	NO	<i>Visualizers are required along with all in one Desktop Computers</i>
9	Do you have e-content/ recorded lectures?	NO	<i>Web/Audio/ Video Content Manager Software Hardware is required</i>
10	Are you using digital techniques in teaching?	YES (10 ICT Enabled Lecture Halls are being used for imparting education)	<i>Presently we are using Digital Classrooms for imparting education using technology based interactive platform.</i>
11	Number of Online Lectures prepared by MHRD/UGC/AICTE telecasted in your institute	NO	<i>ICT Infrastructure is required for preparing and delivering real-time lectures.</i>
12	Do you have Edu SAT SIT?	YES	<i>EduSat is functional and used to deliver lectures as scheduled by EduSat Programme Organisers.</i>
13	Do you have PTZ camera that can be used for recording of lectures?	NO	<i>PTZ Camera along with video conferencing equipments is required.</i>

Equipments Needed for Operationalizing Digital Classrooms at GDC Sopore:

No. of Students enrolled in College under Under Graduate Programme = 5200

No. of Classrooms Available in College: 50

Class Room & Student Ratio 1:104

No. of Smart Class Rooms in College = 10

No. of Digital Class Rooms = NIL

No. of Class Rooms to be upgraded to Digital Class Room = 50



No: DCS/2019/

Date:

Equipment Needed for Upgradation of 50 Class Rooms To Digital Class Rooms

<u>S.No</u>	<u>Equipment Needed for 50 Class Rooms</u>	<u>Required Qty.</u>	<u>Remarks</u>
1.	All in One Desktop Computers (AIO) of latest configurations (i5 / i7), 8/12 GB RAM DDR4 for creating Digital Classrooms and Up gradation of Computer Lab (One Each Per Room)	50 No	<i>The Computers installed in the College are Pentium 4 Technology and require replacement.</i>
2.	Interactive Smart Panel Touch Based Large Size for Digital Classrooms of latest configurations with high resolution, touch based response system (One Each Per Room)	50 No	<i>No interactive smart panel is installed in any class room of the College. Smart Interactive is obsolete technology, interactive panel is the present technology in the market.</i>
3.	High Resolution Video Conferencing Camera with wireless Speaker and USB mic complete system	50 No	<i>No Audio Video-Conferencing Equipment's are installed in the College</i>
4.	Software System for Video Conferencing / Real-time Video Interaction Software System for recording / capturing / archiving and retrieving of Audio/Video Files with capabilities of uploading stored data on Cloud Space	1 No.	<i>Software System is needed for Digital Classrooms</i>
5.	Response tabs Standard Make	200 No	<i>Response Tabs to be provided to students for interactive education and learning and marking responses.</i>
6.	High End Server Intel Xeon / i7 Configuration or Higher Configuration for Online Streaming	1 No.	<i>Central / Main Sever is required with 24x7 Internet Connectivity</i>



No: DCS/2019/

Date:

7.	College Campus Wifi Network System Consisting Series of Wireless Access points, Wireless Routers, Switches, Optic Fibre & LAN Network which is required to be installed across all departments within the College for providing Internet Service for Digital Classrooms	1 No.	<i>LAN based copper network is only available in selective computer labs, whereas same is unavailable in Classrooms, which need to be connected.</i>
8.	Dedicated Internet Connectivity Via Leased Line having higher bandwidth with less downtime for Digital Classrooms	1 No.	<i>BSNL Broadband doesn't suffices connectivity requirement of College and requires at least 24 MBPS dedicated leased line connectivity on optical fibre for digital classroom</i>
9.	UPS 30 KVA for Backup Supply to Digital Classrooms along with battery bank for providing backup during power failure	1 No.	<i>No dedicated power back system is installed in the College.</i>
10.	Diesel Generator 100 KVA for Digital Classroom	1 No.	<i>Diesel Generator of 100 KVA is required for functionalizing Digital Classrooms in all the Departments within the College.</i>

Why Digital Classrooms are required?

1. Usage of Digital Class Rooms has revolutionised the teaching and learning process across Universities & College in India and across the world. If we don't shift to this technology our students will be at a disadvantages viz-a-viz students qualifying from other Universities & Colleges of the Country and this will be the huge loss to our educational system and development of human resources.
2. UGC & MHRD has kept various self-learning online portals like inflibnet MOCC available which requires digital class rooms, in absence of required infrastructure as above in the College, our students will not be in a position to avail benefit from these e – resources.



No: DCS/2019/

Date:

Key Deliverables:

1. More than 5000 Students across all streams will be benefited every year for atleast next 10-15 years by the resources that will be available to them by shifting to Digital Class Rooms and it will increase the quality of knowledge that the student gains, while being in the College.
2. Shifting to smart digital based learning platform will bring our students at par with other competing students from rest of country.

Suggestions & Feedback:

1. Minimum Information Technology equipments need for each Class Room / College across all streams has to be standardized and provided at the uniform scale to all the College.
2. Highspeed dedicated Internet Connectivity (Leased Line/Campus Wi-fi Network) for delivering of e - content in the classroom for students has to be provided to all the Colleges.
3. For improving the learning content by the students we have to move from present mode of teaching to advance technology based interactive education system.
4. The faculty members and non-teaching staff has to be given short duration trainings to make them compliant with the new technology. This has to be incorporated as a clause of supply agreement for equipment suppliers.
5. Digital Classrooms backed with Realtime Audio Video Streaming System and Cloud Computing need to be incorporated in Higher Education.
6. Monitoring system for both students and the faculty members has to be introduced for better results.
7. Minimum learning standards has to be introduced for each subject and pass outs will have to be in compliant to it.
8. Internal weightage of at least 10% of the marks has to be introduced for attendance, sports, soft skills and minimum learning standards. So that attendance and learning of the students is ensured.
9. Skill based courses for livelihood of two hours duration in each stream has to be developed so that students coming to the College has alternate chances of employment.

**(Prof. Farooq Ahmad Malik)
Principal**