NEHRU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution Affiliated to Bharathiar University)
Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu

CENTRE FOR DIGITAL LEARNING

YEAR OF ESTABLISHMENT:2019 – 2020

Vision:

To establish a Virtual Educational Environment for the aspiring minds of our institution with end to end Technology and empowered Innovation.

Mission:

- To incorporate the ICT in all means of Teaching, Learning and Evaluation.
- To provide the experience of Teaching-Learning process anywhere at any time for the Learners and Educators
- To assure consistency in terms of implementing the technology updates.
- To carry up the Deep learning with innovative expertise through ICT

Objectives:

- Enhance the quality of learning and teaching
- Meet the learning style or needs of students
- Improve the efficiency and effectiveness
- Improve user-accessibility and time flexibility to engage learners in the learning process

Name of the Director: Mrs. M. SheelaNewsheeba , Assistant Professor, BCA

No. of Units Under Centre: 05

COMMITTEE MEMBERS

S.No	Name of the Unit	Name of the Faculty Coordinator
1	Swayam / Nptel	Dr. Prakash , Assistant Professor – Commerce
2	SpokenTutorial	Mr. Senthil Kumar, Assistant Professor, CS
3	E- Content Tools	Mrs. Anitha Merlin , Assistant Professor – CS
4	Digital Initiatives and Implementation	Dr. K. Reena , Assistant Professor - Mathematics
5	SwayamPrabha	Dr. K. Pradeep, Assistant Professor – Viscom

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STUDENT MEMBERS- 2021-22

S.No.	Student Name	Class & Department
1.	S. SujiSuraji	III B.Sc CS
2.	K. Kavyasri	III BCA
3.	K. Janaki	II M.sc Micro
4.	S. Aishwarya	III B.Sc Micro
5.	P. Pavithra	II BCA
6.	S. Sneha	III B.Sc CS
7.	B. Mohan	II AI & ML
8.	K. S. Hrudeesh	III B.ScMaths
9.	S. Dhanushiya	II B.Sc CS
10.	M. Shaik Mohammed	III BCA

STUDENT MEMBERS- 2020-21

S.No.	Student Name	Class & Department
1.	S. SujiSuraji	II B.Sc CS
2.	K. Kavyasri	II BCA
3.	K. Janaki	I M.sc Micro
4.	S. Aishwarya	II B.Sc Micro
5.	P. Pavithra	I BCA
6.	S. Sneha	II B.Sc CS
7.	B. Mohan	I AI & ML
8.	K. S. Hrudeesh	II B.ScMaths
9.	S. Dhanushiya	I B.Sc CS
10.	M. Shaik Mohammed	II BCA

STUDENT MEMBERS- 2019-20

S.No.	Student Name	Class & Department
1.	K. Anupama	III B.Sc CS
2.	V. Vaitheshwari	II B.Sc IT
3.	S. Amal Raj	III Maths
4.	M. Sridhar	III BCA
5.	A.Anaka	II BCA
6.	K. Tamilarasi	II B.Sc CS
7.	K. Adharsh	II B.Sc IT
8.	S. Aishwarya	I B.Sc Micro
9.	K. S. Hrudeesh	I B.ScMaths
10.	N. Ajith	III B.Sc CS

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ROAD MAP OF THE CENTRE

Short term Goal	Mid Term Goal	Long Term Goal
NPTEL		
Usage of E-Learning Portal for regular Classes especially for PG Classes	Technical Course Contribution under NPTEL	To Adopt few Government Schools to explore technical courses
SWAYAM		
Registration and Certification in the SWAYAM for all the students and Faculty Members	Involving Associate Professors in Content Development for MOOCs	
Involving Five Faculty Members in Content Development for MOOCs	Getting the Examination Centre for Conduction online examination for MOOCs	Involving 100% Faculty Members in Content Development for MOOCs

Short term Goal	Mid Term Goal	Long Term Goal
SPOKEN TUTORIAL		
Inclusion of all our sister concerns under our Nodal Resource centre – Spoken Tutorial	To have student pilots for the specific schools to orient on Digital Initiatives	100% Certification
Active Presenter, EDMODO & EDPUZZLE		
Faculty orientation on Flipped class Tools	Preparation of E-content through flipped tools for 75% of Courses	Preparation of E-content through flipped tools for 100% of Courses
Preparation of E-content through flipped tools for 25% of Courses	Conducting Quiz with Edmodo&Edpuzzle as regular activity	

Short term Goal	Mid Term Goal	Long Term Goal
Digital Initiatives & Implementation (NDL, N-List and Digilocker)		
Orienting Schools towards implementation of Digital Initiatives.	To place our institution in No. 1 position in N-List	To bring our institution in No. 1 position in providing degree certificates through Digilocker.
SWAYAM PRABHA & Social Media Champion		
Introducing SWAYAM PRABHA for all the classes	Awards and incentives for best contribution through technology	Regular Manuscripts about the Institution with student members based on the back voice of stakeholder
Promoting our institution through social media Viz. Articles & Promos	Installing the DTH in one class per Department	To bring our Faculty Contents on live in SWAYAM Prabha Channels
Bringing Spark Ideation across the organization towards promotion	Conducting Interviews with Potential Champions with Social responsibility	Installing the DTH in all the classes

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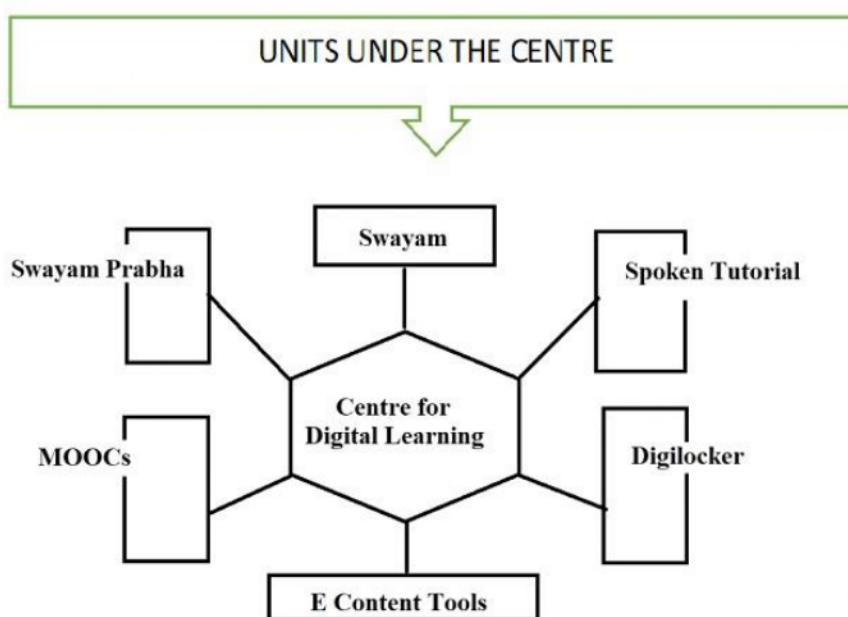Nehru Gardens, Thirumalayampalayam,

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CENTRE FOR DIGITAL LEARNING

Context (Writeup and Pictorial Presentation)

Centre for Digital Learning Established in the year of 2019 – 2020. It was a Vision and a Mission There are 6 units functioning Under this centre namely Swayam, Spoken Tutorial, E-Content Tools, Digital Initiatives and Implementation, Swayam Prabha and MOOCs. Each unit functioning with their specific objectives and has a separate convenor who is incharge for the unit. There are students coordinators under each unit and also department wise coordinators.

<u>Centre Diagram</u>

Swayam which is initiated by Ministry of Eductation Government of India contributes lot of Technical Courses ,The objective of this effort is to take the best teaching learning resources to all. Hence in each semester we instruct the faculty members and students to register the course and make them to get certified.UGC has already issued the UGC (Credit Framework for online learning courses through SWAYAM) Regulation 2016 advising the Universities to identify courses where credits can be transferred on to the academic record of the students for courses done on SWAYAM. Hence the students those who are completed the online course under swayam portal can get the additional credit in his/her academic report.

Spoken Tutorial is an initiative of MHRD(MINISTRY OF HUMAN RESOURCE DEVELOPMENT), Govt. of India and a part of National Mission on Education through

Information and Communication Technology (NMEICT), developed at IIT-Bombay. This is a platform where students can learn and master on various programming languages and software incudng C. C++, JAVA. JBA, Pyhton, PHP&MySQL, LINUX, LibreOffice, BASH, Scilab, LaTeX, Drupal, Perl, Neatbeans etc. In each semester Spoken tutorial Exam will be conducted during the periods June to Dec and Jan to April, before that, we used to conduct orientation programme for students and faculty members, Students can get certificate from IIT Bombay after completing the course. Students those who are not attended or failed will be conducting reexam.

DigiLocker or digital locker provides access to authentic virtual documents. It is a digital document wallet where you can store your documents such as driving licence, PAN card, Voter ID, policy documents, etc. You can upload the documents and keep these safe when you sign up for a DigiLocker account. Hands on training were conducted through this unit for staff and students to get more awarness of this portal and make them to create an account to store the digital documents. ABC (Academic Bank of Credits) ID created for the Students those who are admitted during 2021 – 2022.

E Content tool: ActivePresenter is a screencasting and eLearning software for Microsoft Windows and Mac OS X which can be used to create software demonstrations, software simulations, and quizzes. It allows exporting to a series of images, HTML slideshows, documents (PDF, Microsoft Word, Excel), Microsoft PowerPoint presentations, videos (AVI, MP4, WMV, WebM), Flash videos and interactive simulations for eLearning. Every semester workshop will be conducted for faculty members to create e-content using Active presenter, power point video editor, software etc... Edmodo, Edpuzzles were conducted for faculty members to make them to familiarize with e – resources and this is mainly used to conduct e-quiz and e-puzzles.

The **SWAYAM PRABHA** is a group of 22 DTH channels devoted to telecasting of high-quality educational programmes on 24X7 basis using the GSAT-15 satellite. Every day, there will be new content for at least (4) hours which would be repeated 5 more times in a day, allowing the students to choose the time of their convenience. The channels are uplinked from BISAG-N, Gandhinagar. The contents are provided by NPTEL, IITs, UGC, CEC, IGNOU. Under this unit we used to give orientation for our students and faculty members to give an awareness about this DTH channels and Students are instructed to visit this website and listen the educational videos through this channel.

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Massive Open Online Courses (MOOCs) are free online courses available for anyone to enroll. MOOCs provide an affordable and flexible way to learn new skills, advance your career and deliver quality educational experiences at scale. Millions of people around the world use MOOCs to learn for a variety of reasons, including: career development, changing careers, college preparations, supplemental learning, lifelong learning, corporate eLearning & training, and more. In each semester faculties and students are instructed to register the course and get the certficate.

Best Practices

- Semester wise Swayam course Registration for staff and students.
- Students can get earn extra credit point after completing the credit courses in swayam portal.
- Swayam course made as compulsory for PG students.
- Spoken tutorial orientation is given to I, II and III year students.
- Spoken tutorial exam will be conducting every semester for students and faculty members.
- Hands on training used to conduct for staff and students to get more awarness of this portal and make them to create an account to store the digital documents. ABC (Academic Bank of Credits) ID created for the Students those who are admitted during 2021 – 2022.
- Every semester workshop will be conducted for faculty members to create e-content using Active presenter, power point video editing software etc. and used to conducting workshop / Hands on training in Edmodo, Edpuzzles for faculty members to make them to familiarize with e – resources and this is mainly used to conduct e-quiz and e-puzzles.
- Giving awareness about the DTH channels and Students are instructed to visit this website and listen the educational videos through this channel.
- MOOCs are included for career development, changing careers, college preparations, supplemental learning, lifelong learning, corporate eLearning & training, and more. In each semester faculties and students are instructed to register the course and get the certficate.

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Evidences of Success

- Every semester 100% students and faculty members register the swayamcourse , and for PG it made as compulsory to make an extra credit.
- Students created digilocker ID to store all the documents and also Created ABC account.
- Faculty can create econtent on their own using Active Presenter tools.
- Academic year 2020-21 all faculties completed MOOCs
- Academic year 2021-21 all faculty members completed MOOCs certificates and 139faculty completed spoken tutorial course.

Staff Achievements from 2019 to 2022

S. No	Academic year	Semester	Total no.of staff completed in			
			Nptel	Spoken tutorial	Moocs (coursera, udemy, edonix, other)	Total No. of certificate
1	2019 – 2020	ODD & EVEN	09	-	-	-
2	2020 – 2021	ODD & EVEN	12	60 (FDP)	126 (all faculties)/ 675 Certificates	747 Certificates
3	2021-2022	ODD & EVEN	57	139	160 / 894 Certificates	1090 Certificates

Students Achievements Semester wise

S. No	Academic year	Semester	Total No. of students completed online course in			Total no. of certificates
			Nptel	Spoken tutorial	Moocs (courera, udemy, edonix , others)	
1	2019 -2020	ODD & EVEN	132	1582	-	1714
2	2020 – 2021	ODD & EVEN	190	1358	1433	3852
3	2021 – 2022	ODD	48	928	1084	2060
4		EVEN	143	2065	3059 S /3652 C	5860

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ACTIVITIES OF THE CENTRE 2019-20

S. No	Date	Name of the Activity	Number of Beneficiaries	Programme Outcome
1	27.07.2019	Centre Inauguration & Orientation Programme on Spoken Tutorial	36	Institutions become member under our NRC
2	11.11.2019	Orientation on Flipped class	61	Able to Create E-content using this software.
3	03.01.2020	Swayam Prabha Orientation	1523	Acquired Knowledge from Subject Experts form DTH Channels Live Class.
4	Dec-19	SWAYAM Certification	141	Completed Online Course and Received Certificate.

ACTIVITIES OF THE CENTRE 2020-21

S. No	Date	Name of the Activity	Number of Beneficiaries	Programme Outcome
1.	28.10.2020	Centre Inaguration	100	Acquired Knowledge about Digital Technology and its transformation
2.	29.10.2020	Orientation Programme on Swayam Courses	17	To increase the skill oriented and self learning habit among faculties and students
3.	05.11.2020 to 9.11.2020	FDP on Moodle Learning	60	Acquired Knowledge in Moodle Learning Management System
4.	16.11.2020	Swayam Prabha Orientation	14	Acquried knowledge about different educational videos
5.	27.11.2020	NPTEL Orientation	16	Entrol the NPTEL Courses
6.	08.01.2021	Spoken Tutorial Orientation	100	Knowledge about Spoken tutorial learning platform
7.	28.02.2021	Active Presenter Orientatin	13	To increase skill to develop e-content of their own
8.	23.02.2021	NDL Orientation	25	Knowledge about how to access NDL and Nlist and downloads ebooks, journals etc
9.	25.02.2021	Hands on Training on Digilocker	30	Usage of digilocker and its applications
10.	Sep-21	NPTEL Certificates	202	Completed Online Course and Received Certificate.
11.	Apr-21	Spoken Tutorial Examination	1358	Completed Online Course and Received Certificate.

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12.	May-21	MOOCs Certificates	1559	Completed Online Course and Received Certificate.

ACTIVITIES OF THE CENTRE 2021-22

S. No	Date	Name of the Activity	Number of Beneficiaries	Programme Outcome
1	12.06.2021	Webinar	100	Interactive Online Teaching and Learning process and various ICT Tools
2	10.07.2021	Webinar	63	Knowledge about various digital tools
3	14.07.2021 & 15.07.2021	Coursera Orientation	25	Able to complete online course in Coursera Portal
4	29.07.2021	Active Presenter Orientatin	21	Usage of Active Presenter software
5	28.07.2021	Swayam Prabha Orientation	25	Knowledge about various digital channels
6	09.09.2021	NDLI User Awareness Programme	100	Registration and access of NDL Portal
7	29.09.2021	Webinar on Scholarly Communication	116	Knowledge about e- Resources and N-List etc
8	29.10.2021	Utilization of e-Resources for Book publications	51	To publish e-book using e-resources
9	19.11.2021	Digilocker Orientation	19	How to access digilocker portal
10	Dec-21	MOOCs Certificates	1084	Completed Online Course and Received Certificate.
11	27.01.2022	Edmodo	22	Knowledge about Edmodo
12	28.03.2022	Webinar - ICT Tools for Teachers and Students	60	Knowledge abour various research portals and teaching tools
13	04.03.2022	Webinar - Oportunities to Enhance IT Skills	159	Digital entreprenur, Life cycle of human etc
14	07.03.2022	Seminar - Consumer Behaviour in Tourism	37	Sales procedure of tickers, different types of visa etc.
15	11.03.2022	Webinar- Introduction to Swayam Courses	35	Swayam courses and its importance
16	28.04.2022	Mobile Application Development	85	Knowledge about different OS
17	07.05.2022	Refresher Programme	20	Acquired knowledge about MS Office
18	26.03.2022	Spoken tutorial orientation & Examination	2204	Received Spoken tutorial certificate

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