SNDT Women's University

Shreemati Nathibai Damodar Thackersey Women's University

AQAR 2020-21

Criterion VI

Supporting documents

For

6.5.2-   Institution has adopted the following for Quality assurance

6.5.2 - Institution has adopted the following for Quality assurance

1. **Academic Administrative Audit (AAA) and follow up action taken**
2. **Conferences, Seminars, Workshops on quality conducted**
3. **Collaborative quality initiatives with other institution(s)**
4. **Orientation programme on quality issues for teachers and students**
5. **Participation in NIRF**
6. **Any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

The following are the supporting documents attached for the below mentioned points.

Sr. No.	Contents	Page No.
1.	Academic Administrative Audit (AAA) Report 2020-21	3
2.	Conferences, Seminars, Workshops on quality conducted - STTP	31
3.	Report on Student Led Conference	41
4.	Collaborative quality initiatives with other institutions (MSInS)	42
5.	National Webinar on Lifelong Learning and New Education Policy 2020	60
6.	National Webinar on Reflections on National Education Policy 2020	63
7.	Webinar on Evolving Role of Nurses: Present and Future	68
8.	E-Conference on Artificial Intelligence in Nursing	69
9.	National Conference Teachers Education in Context of Implementation of NEP 2020	76
10.	Workshop on Writing Better MCQs based on Bloom's Taxonomy	81
11.	Participation in NIRF	88

1. Academic Administrative Audit (AAA) Report 2020-21

Academic Audit Report
SNDT Women's University
PUNE   (13 Feb 2020)

The team comprising of:

1. Chairperson- Prof S.F Patel (Former Vice Chancellor, Bharati Vidyapeeth, Pune)
2. Member- Dr. R Pardesi (Principal, Fergusson College)
3. Member- Prof Archana Bhatnagar (Ad Hoc, Dean, Faculty of Interdisciplinary Studies, SNDTWU)
4. Member – Prof Anuradha Sovani, (Ad hoc, Dean, Faculty Of Humanities)

The Departments visited by the teams were:

CAEE (Subcentre Pune)

- Excellent extracurricular activities
- Placement is commendable
- Resource generation through consultancy
- Reaching the unreached Population
- This department should be treated as a sub Centre of Life long learning. Activities of the center may be presented with Churchgate department before NAAC peer team.
- Check credits for Diploma & certificate courses and correct records accordingly.
- Mention course which the student took in placement file

Department of Drawing & Painting

- Students participate in beautification of campus
- One faculty department, other faculty has gone for two years for Tagore Fellowship to Shimla
- Student strength is low
- Lack of faculty
- Currently lack of space
- Lack of consultancy
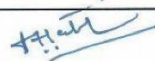- Skill oriented courses to be initiated
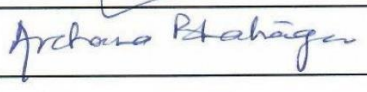
Department of Music

- Good academic environment
- Existence of Mentor Mentee system
- Performance opportunities to students
- Students encouraged to participate in local events in the city
- Good student enrolment
- Lack of involvement in IQAC
- Students need to be motivated to perform and participate at national level.
- Space constraints

Department of Economics

- Contribution to Marathi Vishwakosh
- Creation of Distance Education material
- Reasonable efforts to undertake research
- Work on popularizing the course, increase student enrolment
- No collaboration with the Economics department, Churchgate.
- No MOU/ consultancy
- Faculty appointments needed

Department of Geography

- Good research contribution
- Extension activities commendable
- Participation of students in seminar
- Good linkages for internship program.
- Good library and database
- Low student enrolment
- Lack of consultancy services
- Need to establish collaborations/ MOU with other institutions & universities
- Establishment IQAC in the department

Prof. S.F. Patel (Chairperson)	
Dr. R. Pardesh(Member)	
Prof. Archana Bhatnagar(Member)	Archana Bhatnagar
Prof. Anuradha Sovani (Member)	

Academic Audit Report
SNDT Women's University

PUNE   (13 Feb 2020)

The team comprising of:

1. Chairperson- Dr W N Gade (Vishwakarma University)
2. Member- Dr C. N Raval (Principal, BMCC)
3. Member- Prof Mira Desai (Ad-HOC, Associate dean, Science & technology)
4. Member - Dr Anand Jumle (Ad-Hoc Dean, Faculty Of Commerce And Management)

The Departments visited by the teams were:

CMS

- Masters program in Journalism and Mass Communication is focused on children communication which is a good thing
- Hands on training is good
- Dedicated staff
- Students are well placed
- Department has good social connect
- Good infrastructure
- Quantitative data requires proper evidence which was missing
- Enrollment of students need attention
- Faculty recruitment needs to be taken up on an urgent basis.
- Research component need to be strengthened.
- Student progression needs to be monitored
- Attention and Special efforts should be paid to admissions
- Departmental positioning need to be improved

Department of Commerce

- Relevant curriculum
- Good team work
- Use of ICT is introduced
- Student activities & internship is useful
- Good industrial connect
- Collaborations & MOU's need to be established
- Research publications need to be improved
- Reasonably good infrastructure

- Good student progression and placement
- Industrial advisory board should be formed
- More social outreach programmes need to be introduced
- Funding for research should be sought more-efforts should be made
- Overall a good department

Department of Marathi

- Syllabus needs to be restructured
- Modern teaching learning tools should be employed
- Research and consultancy has to be undertaken
- Faculty needs to be oriented
- Extension activities need to be strengthened
- Integrated efforts of Department is required
- Research program need to be strengthened
- Poor presentation- department needs to work very hard for NAAC

Department of Hindi

- Good placement of students
- Few publications
- One post doctoral student is enrolled
- Syllabus need to be aligned with societal needs
- Use of ICT in teaching / learning need to be strengthened
- Research output need to be improved
- Student feedback needs to be structured and formalized.
- Academic results have been good
- Research publication needs attention
- Proper documentation needs to be done. Guidelines need to be followed
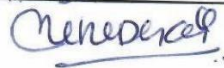- Departmental SWOT analysis needs to be undertaken.

Department of Psychology

- Curriculum is relevant
- High demand ratio
- Transparent evaluation
- Collaborations & MOU's need to be established
- Specializations like industrial and clinical psychology need to be introduced
- Policy for consultancy need to be drafted and implemented
- Available learning resources are optimally utilized
- Student support and progression is very visible
- Good team work
- Curriculum related infrastructure needs to be created.
- Addition learning resources need to be mobilized

General Remarks

- All faculty members need hand holding for NAAC.
- Preparedness for NAAC seems poor
- Faculty recruitment on an urgent basis
- Infrastructure to be improved
- Student enrollment needs to improve
- More efforts need to be taken by each faculty member to undertake research

Dr. W. N. Gade (Chairperson)	
Dr. C. N. Raval (Member)	
Prof. Mira Desai (Member)	
Dr. Anand Jumle (Member)	13.2.2020

Academic Audit Report
SNDT Women's University

Churchgate (11 Feb 2020)

The team comprising of:

1) Chairperson- Prof Smriti Swarup (Former Head-Dept of Special Education, SNDTWU)
2) Member- Dr. Ancy Jose (Principal, Nagindas Khandwala College-Mumbai)
3) Member- Prof Archana Bhatnagar (I/C Dean, Faculty of Interdisciplinary Studies, SNDTWU)

Coordinator- Dr Parul Zaveri

The Departments visited by the Team   were:

- Sociology
- Economics
- Lifelong Learning & Extension &Social Work
- Library Science
- Drawing & Painting.

The following were the observations of the team:

Department of Sociology

- The HOD in her presentation focused only on projecting her own contribution rather than showing the programmes and achievements of the Department as a whole.
- Academic leadership was poor.
- Academic focus was missing
- Interaction between the staff members was negligible, which reflected absence of team-work in the Department.
- As per the nature of the discipline, department has high potential to contribute to the society through research and other academic activities.
- The motivation to undertake such activities was found missing.
- The curriculum needs to be updated as per the needs of the hour.
- The work environment in the Department did not seem very congenial.
- There is a great scope for introducing Value added and short-term courses.
- No effort has been made to involve alumni in improving the departmental image.
- Impression wise a poor department- needs to improve and requires strengthening

The Department of Economics

- The Department has a good pool of guest faculty -but is not able to utilize the existing potential optimally.
- Efforts are required in strategic planning so that effective and desired outcomes are achieved. .
- Number of students at Senior Masters level are 56, who are being guided for dissertation by only 2 permanent staff members, hence the team members felt that visiting faculty with PhD could be involved in guiding or co-guiding.
- Utilizing the existing human resources could enhance quality in research.
- Display and presentation was good. Team -work and respect was observed even with two members.

Department of Lifelong Learning & Extension

- One of the first Departments of Life- long learning to be selected in SNDT Women's University, by the Govt. of India to offer programmes with the financial support of the Government.
- Good Department in terms of its focus and the programmes.
- The programmes are tailored and need based
- Nature, structure and implementation of the programs match the current societal needs.
- Job placement availability of human and financial resources is the strengths of the Department.
- The faculty is qualified and dedicated to the cause of life- long learning.

Department of Social work

- The special feature of the Dept. fulfills the requirement of the discipline.
- Hands- on training and experiential learning are emphasized.
- The faculty is shared between both Life Long learning and social Work departments.
- While, in general, the enrolment of students is declining in all other subjects, the enrollment of students is high as per the intake capacity.

Department of library science

- Good Resources and Curriculum is well designed and executed.
- The need- based curriculum transaction is done very effectively.
- A good application of ICT in training.
- Need to work on increasing the student enrollment.

Department of Drawing & Painting-

- All faculty positions are on contractual basis hence the overall commitment of faculty seems to be less.

- Availability of space as per the requirement of the subject.

- Good professional training and opportunities are provided to the students

- Considering the nature and scope of the subject, the team members suggested that the department could offer short-term hobby and specialized courses in addition to the existing degree and diploma level courses. A book club could be started to induct students into reading books.

General remarks-

1) Staff strength poor in majority of the departments. University needs to appoint qualified persons on the post, as full time person's commitment to the job would be better, may be some good visiting faculty can be appointed on contractual basis.

2) Team did not get adequate time to see the files on display, in some cases the files with titles were on display but the documents within the files were missing. This may not go down well with the NAAC team. Documentation needs to be done meticulously by each department.

3) Repeated Presentation rounds would improve the quality of presentation skill.

4) The members recommend that mentoring and handholding of some departments need to be done (a good department can mentor/ guide the weak departments).

5) Sociology Department was the weakest and members suggested that whenever the NAAC visit is planned the University should project the strong departments first to create a good impression.

6) Departments could collaborate with each other to conduct activities, courses and share resources and faculty.

7) Facilities for attracting foreign students could be thought of and the international cell could actively work towards this.

8) Undertaking departmental research should be made mandatory for each department

9) Faculty members should be motivated to undertake research

Academic Audit Report
SNDT Women's University
Juhu Campus (12 Feb 2020)

The team comprising of the Prof.Smriti Swarup, Dr. Ancy Jose, Dr. Mitra Parekh conducted AAA and visited the following six Departments on Feb.12th 2020:

Department of Special Education

- Dept. of Education Management
- Janki Devi Bajaj Institute of Management Studies (JDBIMS)
- Dept. of Computer Science
- Dept of Foods and nutrition
- Research Centre for Women's studies

Department wise report is presented as under:

Department Of Special Education (DSE):

The HOD of DSE made a power point presentation elaborating the objectives, academic and non- academic programmes, and research and extension activities of the Dept. The committee appreciated the quality of work done by the faculty and students of the Dept.

- This being the pioneer Dept. to be established in the country in 1977, has maintained its reputation in the country as well as internationally; it has continuously been engaged in producing quality teachers for special and inclusive schools.
- The Rehabilitation Council of India approves all the programmes.
- The focus is on hands- on training, field experience and application of theory into practice.
- The dept. has 10 approved faculty positions but only three faculty members are permanent rest all are working on contract basis.
- The Dept. continuously strives to improve the quality of the programmes. A good no. Of International and National conferences, workshops, seminars, are regularly conducted to add value to the programmes.
- The DSE also runs additional self- supporting units ARUSHI & CARE for children with special needs. These Units are also used for teaching practice of B.Ed students.
  Overall, the team appreciated the dedication, commitment of the faculty and quality of the programs.
- With the introduction of compulsory admission of students through CET in the past couple of years, the enrolment of good quality students and the number has been seriously affected. Efforts in this direction to get de-affiliated to CET are required to maintain the quality of training and retain/ enhance reputation of the dept.

Department of Computer Science

- The Dept. was established in the university considering the current needs of technical education.
- The Dept. offers two programs viz., MCA and Master of Computer Science (MCS).
- Only one of the two programmes is approved by the AICTE, the other one is a self -supporting programme.
- Approval for all courses by AICTE could be sought to increase student enrolment.
- The dept. has only 3/4 permanent faculties while majority is guest faculty.
- Efforts to promote research were not significantly evident.
- Academic leadership and team- work was visibly poor.
- Placement of students has not been paid adequate attention by the faculty. Hence, emphasis on job- oriented professional training was found lacking.
- The infrastructural facilities are very good but not optimally utilized.
- This dept. could provide support to the rest of the departments and the university –interdisciplinary researches could be undertaken.

Department of Foods and Nutrition

- A senior professor of the faculty of Home Science who has been made I/C of the Dept. for administrative purposes made the presentation. She does not belong to the discipline.
- The Dept. has earned a high social reputation over the period of its existence, but, unfortunately after the superannuation of the senior faculty in the recent past, no replacements have been made. Thus, this dept. is being run by **Nobody.**
- Foods and Nutrition is one of the high- demand subjects. It needs immediate attention by the University to retain its reputation both professionally and socially.
- The retired faculty of the Dept. continues to take the academic responsibility purely because of their attachment and love for the dept. and students.
- The research scholars in the Dept. share the load of teaching, training and practicum.
- The Dept. had earned a good reputation due to the quality of research it was involved in besides the publications. Now, this is getting seriously affected due to non- availability of regular faculty for research guidance.
- The Dept. is still maintaining high enrolment but if immediate actions are not taken to fill up the faculty positions, the enrolment of students will be seriously affected.
- Interdisciplinary researches could be taken with allied disciplines.
- Industry Linkages could be strengthened
- Appointment of permanent faculty

- University could take the initiative to get de-affiliation from CET because of which the B.Ed and M.Ed. programs have suffered.

Department Of Education Management:

- The Dept. of Education Management is a single faculty and single program dept.
- It offers only one program i.e., PG Diploma in Education Management on a part -time basis.
- The classes are held either in the evening or on weekends.
- Majority of the Faculty is outsourced.
- The enrolment of students is much below the intake capacity
- The HOD presented a gloomy picture of the Dept.
- Since the PGDEM is an in-service program, inclusion of evidence -based practices and hands-on experiences will enrich the programme and strengthen the Dept.
- More full time courses could be started since the PGDEM is part time course.
- Efforts are required to make the Dept. more active and vibrant through value addition in terms of organizing seminars, workshops and creating a peer dominated platform for academic sharing.
- Academic leadership needs a boost-up.

JDBIMS :

- A senior faculty of the Institution made the presentation.
- The institute is running two parallel programmes MBA and MMS.
- The MMS program is self- supporting and has AICTE approval.
- Without AICTE approval for MBA, the institution is jeopardizing the future of their students.
- The intake capacity in MBA is as per the norms laid by the AICTE but the enrolment is far below the intake capacity.
- No visible efforts made in this direction to improve enrolment.
- The infrastructure, financial and human resources are good, but the optimal utilization of its resources is lacking.
- Considering the existing pool of resources, the institute requires an immediate strategic planning and concerted efforts to improve the quality of its programmes, students' training and job placements.
- Research component is weak. The faculty needs to develop/ strengthen attitude of scientific enquiry and research bent of mind.
- There is a great scope for quality improvement.
- Interpersonal relationships and faculty interactions need to improve- it reflects in their interactions.

Research Centre for Women's Studies

- A faculty made the presentation, as the HOD was not present on that day.
- The presentation was vivid, focused and elaborate.
- The Centre was the first in the country to be established in a women's University.
- The Dept. had a glorious beginning with the involvement of the stalwarts, academicians, researchers and feminine activists. Over the years, the Centre has tried to maintain its culture and reputation.
- The Master's programme offered by the Dept. has interdisciplinary focus and certain other unique features because of which it draws students from different backgrounds with specific goals.
- The diversity of students is well addressed by the Dept.
- The issue of low enrolment has not been addressed adequately by the Dept. but still needs to improve
- The strength of the Centre lies in its quality of research and the archives that have been preserved meticulously and carefully.
- More of financial resources need to be generated to enhance the quality of research.

General recommendations:

- All vacant teaching posts be filled at the earliest-as students also research about faculty and infrastructure before seeking admission.
- Short term / value added courses in each department should be offered, mode of delivery (online/ offline) could be decided by the departments based on their resources.
- Infrastructure should improve
- Feedback mechanism by all stake holder should be in place
- A proper strategy should be planned to improve enrollment
- More emphasis should be on Research- this seems to bee lacking in all departments.
- Documentation in each department and the university should be well maintained, as it is very important.
- A very strong Alumni Association is required
- Accessibility for all students should be considered
- Undertaking departmental research should be made mandatory for each department

Prof. Smriti Swarup (Chairperson)	
Dr. Ancy Jose (Member)	
Prof. Archana Bhatnagar (Member)	*Archana Bhatnagar*

(Curricular Aspects, Teaching Learning & Evaluation and Research Consultancy & Extension)

CHURCHGATE CAMPUS

Department – Gujarati

1. **Commendation of the Departments.**

1. Received DRS – in phase III
2. SAP – grant from UGC
3. MOU with other Academy
4. Multi lingual program
5. Guest Lecture series
6. Various initiatives toward Gujarati Language promotion
7. Equipped with Gujarati font typing

2. **Recommendations and Suggestions for further improvement.**

1. Student enrolment need to be increased.
2. Positions of faculty to be filled.
3. Inter disciplinary collaboration needed.
4. Certificate course may be started.
5. Space constraint
6. Storage facility needed. (for projects, assignment, etc.)

Department –Nursing

1. **Commendation of the Departments.**

1. Vision and mission clearly defined & followed.
2. Advance curriculum.
3. Very good demand for the course.
4. Competent faculty
5. Simulation lab developed.
6. Students & teachers spend time in the public medical services.
7. Various students' activities & extension activities.
8. 25% students from other states.
9. Registered Strong alumni base even with US & UAE chapters. Well placed Star Alumni.

2. **Recommendations and Suggestions for further improvement.**

1. Intake capacity may be increased or Additional Division with the permission from the competent authorities may be started.

ACADEMIC & ADMINISTRATIVE AUDIT

(Infrastructure & learning resources, Student Support and Progression, Governance, Leadership and Management, Innovations and Best Practices)

2. The School has great potential to become a Centre of Excellence (National and International)
3. To initiate the process of getting Autonomous Status.
4. Inter disciplinary approach be encouraged.
5. Collaborations and joint research be encouraged.
6. To attract foreign students

Department –Music

1. Commendation of the Departments.

1. Periodic revision of the syllabus
2. International exposure
3. Personality development and life skill programme being organised

2. Recommendations and Suggestions for further improvement.

1. Needs more exposure in the latest development of Music
2. Certificate & Short-Term Couse may be introduced
3. Subject may be made more vibrant
4. Efforts to attract students from other states
5. Presentation needs to refined
6. Department Ambience may be enhanced.
7. Better storage / maintenance facility may be provided.

Department –Psychology

1. Commendation of the Departments.

1. Students strength
2. Competent faculty
3. Three PG Programs
4. Blended teaching – learning
5. Enrichment program – 'Campus to Career'
6. Collaboration with Canadian University

ACADEMIC & ADMINISTRATIVE AUDIT

7. Laboratory facility for Psychological tests
8. 100% placement
9. Many of the students go abroad for higher studies

2. Recommendations and Suggestions for further improvement.

1. Periodic Revision of syllabus
2. Interdisciplinary approach may be encouraged
3. Collaborative research be encouraged
4. Fees structure of the self-financed courses may be revisited
5. To provide consultancy
6. Cyber-psychology program can be started
7. Bridge course for vernacular medium students
8. Certificate / Diploma Courses may be started
9. Better infrastructure facility maintenance. Departmental Ambience
10. Suggestion box may be provided

Department –Education

1. Commendation of the Departments.

1. Curriculum is revised time to time
2. Students are happy with the delivery of the course. High happiness index
3. Certificate courses and Online courses have been started.
4. Competent and Enthusiastic faulty (2)
5. Faculty members effectively use ICT

1. Recommendations and Suggestions for further improvement.

1. Space. Independent classrooms facility with Smart boards
2. NET / SET training to students
3. MA (Edu) programme can be promoted through other UG departments.
4. To organize inter disciplinary activities
5. Collaboration with other Institutions / Departments

ACADEMIC & ADMINISTRATIVE AUDIT

(Infrastructure & learning resources, Student Support and Progression, Governance, Leadership and Management, Innovations and Best Practices)

JUHU CAMPUS

Department – Analytical Chemistry

1. **Commendation of the Departments.**

1. The program has good market demand
2. Spacious Laboratory facilities available

2. **Recommendations and Suggestions for further improvement.**

1. Better instrumentation facility
2. Many Instruments (HPLC, UV Spectro Photometer, etc.) non-functional, AMC needed.
3. Sanctioned faculty and staff be appointed. Adjunct faculty may be appointed.
4. Interdisciplinary initiatives may be taken (with School of Pharmacy, etc.)
5. Industry linkages should be strengthened
6. Collaborative research be encouraged
7. The process of Autonomy may be initiated.

Department –Educational Technology

1. **Commendation of the Departments.**

1. Well-designed program
2. Active Teaching – learning centre
3. Hands on experience in the labs
4. Paid internship
5. Zero lecture classroom
6. Organize trainings and workshops
7. E-content development and Recording facility appreciable

2. **Recommendations and Suggestions for further improvement.**

1. Student enrolment
2. Collaboration with other departments / institutions
3. Use of University resources
4. More Space is utilized for project rather than teaching students?

ACADEMIC & ADMINISTRATIVE AUDIT

Department –Law

1. Commendation of the Departments.

1. Students enrolment
2. Renowned advocates are on the board
3. Young and enthusiastic faculty
4. ICT equipped classroom
5. Free legal aid centre
6. Free services for settling the disputes
7. 2 Successful PIL fought by students at State level
8. Legal aid camp
9. Good exposure to students
10. Great potential

2. Recommendations and Suggestions for further improvement.

1. Interdisciplinary initiative
2. More specializations
3. Autonomy to the Department
4. Vision with an action plan
5. Need to develop alumni association
6. More space needed
7. Moot Court ambience

Department –Pharmacy

1. Commendation of the Departments.

1. Good Market demand
2. Research culture, Research grants and consultancy, Publications
3. Competent faculty
4. Syllabus revision in 2019
5. Remedial course in Math and Biology
6. Soft skill development
7. Medicinal garden
8. Machine room

ACADEMIC & ADMINISTRATIVE AUDIT

(Infrastructure & learning resources, Student Support and Progression, Governance, Leadership and Management, Innovations and Best Practices)

1.   **Recommendations and Suggestions for further improvement.**

1.   Interdisciplinary approach
2.   Certificate / Diploma courses
3.   Autonomy to the School may be initiated
4.   Maintenance, AMC
5.   Non-teaching roaster

Department –UMIT (Engineering)

1.   **Commendation of the Departments.**

1.   Good infrastructure
2.   Curriculum updated and as per the industry need
3.   Participation by students in co-curricular and extra-curricular activities
4.   Campus placement

2.   **Recommendations and Suggestions for further improvement.**

1.   Preparedness
2.   Faculty Recruitment
3.   Interdisciplinary approach
4.   Collaborative research / projects
5.   Vision with an action plan
6.   Alumni

GENERAL Suggestions

1.   **Vacant posts**

1.1.   Government authorities be persuaded so that all the vacant teaching, administrative / technical posts are filled at the earliest. Some of the departments have only one or two faculty members. Adjunct faculty (Retd. Professors) may also be appointed on Contractual / Honorary basis.

2.   **Short Term courses**

ACADEMIC & ADMINISTRATIVE AUDIT

2.1   Need based Short-term courses / Online courses can be offered by each and every department.

2.2   Some courses can be offered partly online and partly in offline mode.

2.3   Existing need based short term certificate; diploma courses can be made more dynamic.

The delivery system of some of these courses can be through theory lectures, practicals and online on Saturday / Sunday.

3.   Feedback

3.1   Feedback on curriculum be obtained from all the stakeholders (Students, teachers, Employers, Alumni and Parents).

4.   Teaching-Learning Process

4.1   The use of technology in teaching-learning and evaluation processes can be further strengthened. Department of Educational Technology, Distance Learning Centre and Teaching Departments can come together for content creation of common courses / topics and use MOOC technology. Departments can use educational software available on internet, University and Departmental website; WhatsApp groups can bring students and teachers together for better teaching- learning process.

4.2   Evaluation of Teachers' performance by students, peers and seniors should be monitored more systematically.

5.   Evaluation

5.1.1   Reforms in evaluation system is a continuous process. Internal assessment, Projects evaluation, Assignments, etc. should give appropriate weightage to oral and written communication, innovative ideas and practical applicability.

6.   Admissions

6.1   Serious brainstorming is required to increase enrollment in most of the departments. Additional divisions may be started wherever demand is more. (Nursing, Pharmacy, etc.)

SNDT WOMEN'S UNIVERSITY
ACADEMIC &ADMINISTRATIVE AUDIT REPORT – 2020

(Infrastructure & learning resources, Student Support and Progression, Governance, Leadership and Management, Innovations and Best Practices)

6.2 If the numbers of applicants are more, the admissions be made on merit basis instead of present first come first admitted basis.

6.3 High Fees and Minimum Eligibility criteria (45% at graduation) for some M. Sc. programmes (with low enrolment) be reviewed.

6.4 Nomenclature and content of Courses such as M. Sc. (Extension) be suitably changed to attract students.

7. Research / Innovations

7.1 Efforts be made to explore getting research grants from different funding Agencies (State/ National/ International).

7.2 Efforts should be made to file patents for innovative teaching aids (for Early Childhood Care) Agricultural tools, Interior Designs (for FRM), etc.

7.3 Innovations and best practices need to be appropriately presented.

7.4 Internship can be provided in many more departments.

8. Hostel

8.1 Hostel facility has to be increased to attract more students.

9. Placements

9.1 All courses, along with salient features of course content be advertised properly, using print and social media. (Especially in the context of the competition from Private & Deemed to be Universities, Distance and On-line programmes, Autonomous Colleges, etc.)

9.2 Placements can be further improved. Placement cell in all the departments be created. Students may be involved in strengthening the cell.
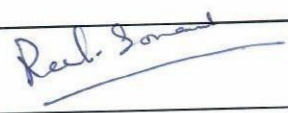
ACADEMIC & ADMINISTRATIVE AUDIT

10. **Autonomy**

10.1   Autonomy to few selected schools / departments can be initiated so as to further strengthen the academic activities and revise curriculum frequently as per the need.

11. **Academic and Administrative Audit (AAA) / Presentations**

11.1   AAA forms to be filled by all the departments properly.

11.2   i) Departmental presentations need improvement. ii) Innovations and best practices need to be presented iii) Short term and future plan be presented iv) Interdisciplinary approach v) Collaborative project research be encouraged.

Prof. Naresh Chandra (Chairman)	
Dr. Chaitaly Chakraborty (Member)	
Dr. Reeta Sonawat (Member)	
Dr. Anubha Khale (Member)	

ACADEMIC & ADMINISTRATIVE AUDIT

SNDT WOMEN'S UNIVERSITY
Academic & Administrative Audit Report

February 11 & 12, 2020

(Infrastructure & learning resources, Student Support and Progression, Governance, Leadership and Management, Innovations and Best Practices)

DEPARTMENTS

1. Department of English

2. Department of Hindi

3. Department of History

4. Department of Sanskrit

5. Department of Marathi

6. Department of Commerce

7. Department of Human Development

8. Department of Extension Education

9. Department of Family Resource Management

10. Department of Textile Science and Apparel Design

GENERAL SUGGESTIONS

AAA Team members
Prof. A.P. Pradhan (Chairman)
Dr. Veena Devasthali (Member)
Dr. Smriti Bhosle (Member)

Department of English

1. Commendation of the Department:

1) Department has developed linkages.
2) Placement is good and diverse.
3) Curriculum is well design.

2. Recommendations and Suggestions for further improvement:

1) Language lab be developed.
2) MOU with institutions be endorsed.

Department of Hindi

1. Commendation of the Department:

1) Obtained UGC Grant of Rs. 56 Lakhs for the department. (including 25 lakhs for Hindi Bhavan)
2) Job orientated curriculum.

2. Recommendations and Suggestions for further improvement:

1) Explore funding sources for departmental activities such as- Grants for seminars / conferences / workshops etc.

Department of History

1. Commendation of the Department:

1) Diversified and interdisciplinary area of research by the faculty.

2. Recommendations and Suggestions for further improvement:

1) Departmental presentation needs to be improved.
2) Research needs to be strengthened.
3) Short term job oriented courses to be developed (e.g. Heritage, Tourism etc.)
4) Weaknesses mentioned in the form need to be property identified. (e.g. Heavy workload and insufficient classrooms should be specified)

Department of Sanskrit

1. Commendation of the Department:

1) Spoken Sanskrit course is a special feature of the department.
2) Good initiative in students' enrichment programmes.

2. Recommendations and Suggestions for further improvement:

1) Initiate the use of ICT in teaching-learning process.
2) Need to explore IT softwares for simplification of complicated Sanskrit texts (समास विग्रह) etc.

3) Short term courses be offered (e.g. Bhagvadgeeta, Upanishadas etc.)

Department of Marathi

1. Commendation of the Department:

1) Skill based programmes are offered (e.g. Script writing).
2) Interdisciplinary job oriented short term courses are offered.
3) 'Dr. S.G. Malashe Research Center' is a special feature of the department.
4) Good research and extension work.

2. Recommendations and Suggestions for further improvement:

1) Exploration of collaboration with Govt. Depts. is needed (in the context of 'मराठी भाषा संवर्धन', 'अभिजात भाषा दर्जा' ईत्यादी).

2) Certificate or short term courses be offered for Non-Marathi students.

Department of Commerce

1. Commendation of the Department:

1) Good placement through internship.
2) Projects are based on practical work.
3) Variety of enrichment activities are organized on regular basis.
4) Organized training / orientation programmes for competitive exams.
5) Research Methodology workshops are arranged.

2. Recommendations and Suggestions for further improvement:

1) Need to explore collaborations with industry, financial institutions etc. (taking advantage of the location).

2) Efforts be made for more involvement of Professionals from nearby reputed firms and corporate as visiting faculty for Teaching, Syllabi revision, Project internship and /Placement.

3) To attract the students, the radical change in the curriculum is needed.
4) Short term courses and programmes be arranged on current developments.
5) While framing the curriculum, the inputs from corporate sector have to be taken into consideration for increasing the popularity of the course.

Department of Human Development

1. Commendation of the Departments:

1) Along with Aided course on Human Development, department is also offers job oriented Degree and Diploma Course in 'Early Childhood Education' (ECE) on Self-financed basis.
2) Dept. also runs complementary programmes such as :
   a) Nursery School   b) Jr. K. G. and   c) Sr. K. G.

2. Recommendations and Suggestions for further improvement:

1) Department can explore marketability of products developed by the students of the dept.
2) Focus of the department appears to be on ECE course which is commendable but at the same time course on 'Human Development' also be strengthened.
3) As Human Development Index is an important parameter for any country, (our country rank, as per UN ranking is much lower) the name of the programme (earlier name 'M. Sc. In Child Development') is now 'M. Sc. In Human Development' (for all ages), it is necessary to review curriculum suitably.
4) Also Education to children in age group 3 to 6, is part of New Educational Policy, demand of trained man power be increased (such as M. Sc. (ECCE) etc. persons).

As such it is necessary to advertise both the programs suitably.

Department of Extension Education

1. Commendation of the Departments:

1) ICT integrated teaching and learning in 'M.Sc. in Media and communication' (Self-financed course)

2. Recommendations and Suggestions for further improvement:

1) As there is no enrolment for this important Aided M. Sc. Extension course for 2 years, brainstorming of experts is urgently needed regarding complete modification of course (Name, content, course delivery, course takers, marketing strategy etc.)
2) Short term / Certificate courses be offered.

Department of Family Resource Management

1. Commendation of the Departments:
1) Department has good infrastructure facilities.
2) Alumni contribute in placement of students.
3) Strong research activities.
4) Dept. organizes environment oriented extension activities.

2. Recommendations and Suggestions for further improvement:
1) Use of 'Face book' and use of 'You Tube' be explored to advertise the course on 'M.A. in Resource Management and Ergonomics'.
2) Online courses need to be developed.
3) Industrial linkages can be strengthened.

Department of Textile Science and Apparel Design
1. Commendation of the Departments:
1) The curriculum is well structured focusing on design, tailoring, dying and printing.

2. Recommendations and Suggestions for further improvement:
1) Lack of instruments especially testing equipments.
2) Efforts should be made to explore grants.
3) Publicity of the course is needed to attract students.
4) Linkages with industry should be strengthened.

GENERAL Suggestions
1. Vacant posts
1.1 All vacant teaching posts be filled at the earliest.

2. Short Term courses
2.1 Short term / Online courses have to be offered.

2.2 Some courses can be combination of online and offline.

2.3 System of starting need based short term certificate, diploma programs be made more dynamic.

2.4 The delivery system of some of these courses can be combination of regular lectures, practical on Saturdays / Sundays combined with online teaching learning evaluation.

3. Feedback
3.1 Feedback on curriculum be obtained from Students, teachers, Employers, Alumni and Parents.

4. Teaching-Learning Process

4.1 Present use of technology in teaching learning, evaluation processes can be further increased. Department of Educational Technology, Distance Learning Centre and Teaching Departments can come together for content creation of common courses and use MOOC technology. Departments can use educational software available on internet, University and Departmental website; whatsapp groups can bring students and teachers together for better teaching learning.

4.2 Teachers performance evaluation by students should be monitored more systematically.

5. Evaluation

5.1 Internal assessment Projects evaluation should give appropriate weightage to oral and written communication, innovative ideas, and practical applicability.

6. Admissions

6.1 Serious brainstorming is required to increase enrollment in majority of the departments.

6.2 If the numbers of applicants increase the admissions be made on merit basis instead of present first come first admitted basis.

6.3 Areas like High Fees and Minimum Eligibility like 45% at graduation (as compared to competitive other universities/autonomous colleges) for some M. Sc. programmes with low enrolment be reviewed.

6.4 Nomenclature and content of Courses such as M. Sc. (Extension) be suitably changed to attract students.

7. Research / Innovations

7.1 Efforts be made to explore research grants from various funding Agencies (State/ National/ International).

7.2 Efforts should be get patents of innovative teaching aids (for Early Childhood Care) Agricultural tools, Interior Designs (for FRM) etc.

7.3 Innovations and best practices need to be appropriate.

7.4 Internship can be improved.

8. Hostel

8.1 Hostel facility has to be increased to enhance students' enrollment.

9. Placements

9.1 All courses, along with salient features of course content be advertised properly using print and social media. (Especially in the context of the competition from private & deemed Universities, Distance and on- line programmes, Autonomous Colleges etc.)

9.2 Placements can be further improved.

10. Autonomy

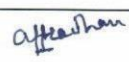10.1   Try to acquire departmental autonomy.

11. Academic and Administrative Audit (AAA) / Presentations

11.1 AAA forms to be filled up by the departments properly.

11.2 Departmental presentations need improvement. Innovations and best practices need to be properly.

Prof. A.P. Pradhan (Chairman)	*aPpradhan*
Prof. Veena Devasthali (Member)	
Dr. Smriti Bhosle (Member)	

2. Conferences, Seminars, Workshops on Quality conducted - STTP

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

STTP- Sanction Letter

Ref. No. 34-66/226/FDC/STTP/Policy-1/2019-20   Date   1 0 AUG 2020

From

    Director,
    Faculty Development Cell,
    AICTE, New Delhi-110070

To
    The Drawing and Disbursing Officer,
    All India Council for Technical Education,
    Nelson Mandela Marg,
    Vasant Kunj, New Delhi – 110070

Sub: Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2019-20 during the financial year 2020-21– reg.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 220667** /- **(Rupees Two Lakh Twenty Thousand Six Hundred SixtySeven Only)** for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	USHA MITTAL INSTITUTE OF TECHNOLOGY S.N.D.T WOMEN'S UNIVERSITY, SIR VITHAL DAS VIHAR, SANTACRUZ(W), MUMBAI Maharashtra 400049
2.	Permanent ID of Institute	1-41838661
3.	Institute type	University Managed-Govt
4.	Name of Coordinator	Dr. SHIKHA NEMA
5.	Amount sanctioned	Rs. 220667/-
6	Amount to be released	Rs.220667/- Full & final payment
7.	Head of account	601.15(a) Gen. Short Term Training Programme (Plan)
8	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	"NATURAL LANGUAGE PROCESSING WITH GOOGLE AI AND DIALOGFLOW AND ITS APPLICATIONS"

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.

2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned Bank Account / RTGS Details submitted by them alongwith the proposals, in which the grant is being released:-

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AACTS2211D	CANARA BANK	SNDT Juhu	SNDT Women's University, Juhu Tara Road, Santacruz (W), Mumbai - 400 049	Usha Mittal Institute of Technology	Saving Account	4634101000439	CNRB0004634

Instructions/Guidelines to be followed by the University/Institution

I. Disbursement of funds to University/Institutions

    a. The full amount of the grant sanctioned is being released as advance to the University/Institute.

    b. The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.

    b. The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2020-21.

II   Maintenance of Accounts

    a. The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.

    b. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.

    c. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.

    d. The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc.

III. Conduct of test and issuance of certificate

    A test shall be conducted by Program Monitoring Committee (PMC) at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

IV. Submission of Documents by the University/Institutions to AICTE

    a. The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of the program:-

        (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.

The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

(ii) Feedback form in the prescribed proforma.

(iii) Copy of the proceedings and completion report.

(iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Monitoring Committee (PMC).

(v) Report submitted by Program Monitoring Committee (PMC).

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

V. General instructions

a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.

b. The grant released/or part thereof, if remains unutilized for any reason after expiry of stipulated time period (for any reasons to include unspent amount, interest , penalty if imposed) shall be refunded back to AICTE in the form of RTGS payable to Member Secretary, AICTE, New Delhi. The bank details of AICTE are as under:-

Account No	:	55113199952
Name of the Account Holder	:	Member Secretary, AICTE, New Delhi
Bank Name	:	State Bank of India
Branch Name	:	Shastri Bhawan, New Delhi
IFSC Code	:	SBIN0050203

c. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within six months from the date of release of funds.

d. If programme is not conducted within the period of six months of the release of the 100% grant, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month through RTGS.

d. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.

g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.

h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-66/226/FDC/STTP/Policy-1/2019-20 in your future correspondence.

i. Steering Committee/Project Monitoring Committee (PMC) is required to be constituted at institutional level. The constitution of the PEC shall be as under:

(i) Principal/Director/Registrar of the institution (Chairperson).

(ii) (ii) Coordinator of the program (Member Secretary).

(iii) Two HoDs and one subject expert (members).

The members of the said PMC shall not be below the rank of Associate Professor. A test shall be conducted by Project Monitoring Committee (PMC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PMC report, are to be submitted to the Council at end of the program along with other mandatory documents.

j. **GoI GFR rules** (@https://doe.gov.in/order-circular/general-financial-rules2017-0) should be followed during utilization of grant.

k. This Sanction Order may be treated as Offer Letter for all purposes.

NOTE:- Any deviation from the above will invoke serious action against the Institute.

Yours sincerely,

(Col. B Venkat)
Director (FDC)

1 0 AUG 2020

Copy forwarded for information and necessary action to: -

1. **Name and Address of the Coordinator**
   Dr. SHIKHA NEMA
   USHA MITTAL INSTITUTE OF TECHNOLOGY
   S.N.D.T WOMEN'S UNIVERSITY, SIR VITHAL DAS VIHAR, SANTACRUZ(W), MUMBAI
   Maharashtra400049

2. **The Registrar / Director / Principal**
   USHA MITTAL INSTITUTE OF TECHNOLOGY
   S.N.D.T WOMEN'S UNIVERSITY, SIR VITHAL DAS VIHAR, SANTACRUZ(W), MUMBAI
   Maharashtra400049

3. **Guard File**

Report on AICTE Approved Short Term Training Programme on "Natural Language Processing with Google AI and Dialog flow and Its Applications"
Organized by
Department of Electronics & Communication Usha Mittal Institute of Technology SNDT Women's University, Mumbai, Maharashtra

Short Term Training Program on "Natural Language Processing with Google AI and Dialog flow and Its Applications"
The main objectives of AICTE Approved STTP were:

- To provide basics and advance part of Natural Language Processing (NLP).
- To develop expertise in using Artificial Neural Network and Deep Learning Techniques for NLP.
- To provide insights of designing and programming Engineering applications using Python Programming.
- The keynote speaker for the inauguration was Honorable Vice-Chancellor Madam, Dr. Shashikala Wanjari.The inauguration was attended by Principal Dr. Sanjay Pawar, Head of Department and Coordinator Dr. Shikha Nema, Program Coordinator along with the participants and faculty members of the Institute.
- On the last day, the program valedictory function was organized in the presence of Principal, Dr. Sanjay Pawar, Head of the Department and Coordinator Dr. Shikha Nema, Chief guest Shri Ravi Shankar Chaurasiya Sir, Scientist ISRO, Guest of Honor Dr. Ashish R. Panat (Director of Innovation, Incubation and Linkages).
- The entire STTP was conducted by efforts of Head of Department and Coordinator Dr. Shikha Nema, Organizing Committee team of Electronics & Communication Department.

Sr.No.	Name of the Guest Speaker	Details of the Speaker	Topics Covered	Date
1	Dr. Shashikala Wanjari	Vice-chancellor, SNDT Women's University, Mumbai, Maharashtra	Introduction on National Education Policy 2020 with Goals of NEP 2020 i)School Education ii)Higher Education iii)Other key Areas of Focus iv)Making it Happen and its	

			challenges v)Preparing reflective teachers for society	
2	Dr. Ujwala Bharambe	Asst.Professor in Department of Computer Engineering, TSEC, Bandra, Mumbai	Introduction of NLP History and stages of NLP Ambiguity in NLP Challenges for NLP Application areas of NLP	21.06.2021
3	Dr. Akanksha Joshi	Principal Technical Officer, C-DAC, Mumbai	Phases of NLP Concept of Sentiment Analysis Principle and need of Clustering Summarization process in NLP	21.06.2021
4	Mr. Akash Rajpuria	NLP Scientist at NAVANA Tech.and Top Instructor at UPGRAD	Text Processing in NLP i)Task and applications of NLP ii) Need of Lexical and Syntactic Analysis iii)Stemming and Lemmatization process iv)Hands on creation of Chatbot by RASA	22.06.2021
5	Mr. Upendra Kumar Tiwari	Asst.Professor in ABES Institute of Technology, Ghaziabad, (Uttar Pradesh)	Data Visualization in NLP i)Text Mining and its importance ii)Terminology and Pre-Processing iii)DTM and TDM concept iv)Creating Corpus level on Word Cloud v)Machine Learning Approaches to NLP	
6	Mr. Akash Rajpuria	NLP Scientist at NAVANA and Top Instructor at UPGRAD	Introduction to Chatbot Hands on to develop own Chatbot in Dialog flow	
7	Mr. Prashant More	Consultant and Freelancer in Data Science in C-DAC, Mumbai	Data Analysis with Python i)Concept of Exploratory text data analysis ii)Different Clustering Algorithms iii)Single modeling approaches iv)Probabilistic topic modelling with LDA	23.06.2021

			v)Classification and Methodologies of Sentiment Analysis vi)Lexican based Sentiment Analysis vii)Hands on Data Analysis with Python	
8	Mr. Prakash Pimple	Data Science Scientist, CDAC, Mumbai, Maharashtra	Introduction of text classification i)Techniques for text classification ii)Converting text data into vector form of data iv)Hands-on text classification with Python of NLP	24.06.2021
9	Mr. Upendra Kumar Tiwari	Asst.Professor in ABES Institute of Technology, Ghaziabad, (Uttar Pradesh)	Challenges of Sentiment Analysis, Hands-on Sentiment Analysis of documents and word cloud i)Sinking process of data from twitter and converted into vector TIFDR ii) Removal of stop word data	
10	Dr. Akanksha Joshi	Principal Technical Officer, C-DAC, Mumbai	Chatbot Design with RASA i)Concept of AI based conversational framework design ii)Advantages of RASA and its architecture iii)Different types of Featurizer techniques iv)Hands-on with examples of design of Chatbot by RASA	24.06.2021
11	Dr. Manish Kumar Jain	International Corporate Trainer, Technical Consultant and Data Scientist, Mumbai	Lemmatization and Dialog Flow i)Concept of Text Mining of NLP ii)Different types of NLP Component iii)Concept of Tokenization, Stemming and Lemmatization iv)Chatbot implementation by Dialog Flow v)Examples of Chatbot with Voice Communication	

12	Mr. Sangameshwar Patil	Senior Scientist at TCS Research, Mumbai	Introduction to NLP and Text mining applications i)Advantages of NLP with Google AI and Different Applications of Dialog Flow ii)Concept of entity Coreference Resolution iii)Importance of Automated Linguistic Identification and Assessment (ALIAS) iii) NLP task with different MLN Predicates Rules	25.06.2021
13	Dr. Akanksha Joshi	Principal Technical Officer, C-DAC, Mumbai	NLP with Deep Learning i)Concept of Machine Learning Pipeline, Bag of words ii)Text Representation and word embeddings in DL iii)The continuous Bag of word embedding Model and its types iv) Different Algorithms of ML and DL v)Comparison of ANN and RNN models vi)Concept of Short term and Long-Term memory (LSTM) with examples	
14	Mr. Santosh Chapaneri	Asst. Professor at St. Francis Institute of Technology, Mumbai. MS in ECE from University of Arizona, USA. Pursuing PhD in Music Learning from University of Mumbai, Maharashtra	NLP Libraries and Word Embedding in NLP i)NLP libraries in Colab Notebook ii)Concept of Preparing Corpus recipes of Dataset iii)Text processing, Lemmatization and counting bag of words iv)Classification Problem of ML classifier v)Introduction of NumPy Libraries of NLP	25.06.2021
15	Mr. Santosh Chapaneri	Asst. Professor at St. Francis Institute of Technology, Mumbai. MS	Gensim Library Applications and RNN, LSTM for Text Processing	26.06.2021

| | | in ECE from University of Arizona, USA. Pursuing PhD in Music Learning from University of Mumbai, Maharashtra | i)Importance of NLTK and Topic Modelling ii)Advantages of Gensim API for NLP iii)Hands-on to create bag of words iv)Concept of training word2dec model v)Hands-on Word Embedding in Python with Gensim Library vi)Sequence Learning concept for NLP vii)Comparison of RNN and LSTN models | |

Dr. Shikha Nema,
HoD of ENC Department, Coordinator of STTP)

Day 1 Session 1	**Prof Shashikala Wanjari, Vice chancellor**	The session conducted by **Prof Shashikala Wanjari** was very informative and motivating. She had discussed about new educational reforms and its benefits. With the quotes by Swami Vivekanand and Tagore, Bhagini Nivedita you can not resist to stick to it and didn't want to miss a single word from madam. Takeaways from this session are inculcate values with skills in students. Go back to our culture and our rich heritage to enlightened life.	
Day 1 Session 2	Mr. Vikash Kumar, IIM Lucknow	**Topic: Introduction of natural language Processing** Second session is also informative wherein **Mr. VIKASH** Had introduced to natural language processing. Discuss real time scenarios and different application areas ,about father of NLP Alan Turing. Very nicely explained about NLP with the help of gmail app and gmail search engine. NLP is a future	
Day 1 Session 3	Mr. Vikash Kumar, IIM Lucknow	**Topic: History and different real time applications, and softwares of NLP** The lecture was started with the history of natural language processing and development of its various applications over many years. Then there was a discussion about the kind of software that can be used for processing the language.	
Day 2 Session 1	Ms. Divya Kapri, Capgemini	**Topic: Artificial Intelligence & its association with NLP** AI and its association with NLP. What AI is and its requirement in daily life. Why ML is needed? Even the top AI use cases was discussed. The impact of AI and ML in the existing industry was briefed upon. Demand for AI professionals was also discussed. We also learnt about the association of NLP with AI.	
Day 2 Session 2	Ms. Divya Kapri, Capgemini	**Topic: 5 Multiple Components of NLP** Impact of AI on the existing industry specially travel industry. Market leaders implementing AI and ML with future technologies having AI 73% contribution. AI is superset variants called machine learning and deep learning are subset. There are two basic components of AI called NLU and NLG. Introduction to basic phases of AI.	
Day 2 Session 3	Dr. Kamlesh Dutta, NIT, Hamirpur	**Topic: Natural Language Processing** Why NLP is required like lots of data is a text data. Challenge of natural language. NLP pipeline has 9 stages from sentence segmentation to Chunking. There are five main phases for NLP like lexical analysis, syntactic analysis, semantic analysis, discourse integration, pragmatic analysis which is one of the challenging phases. Deep learning models and basic hands on using Google Colab tool.	
Day 2 Session 4	Mr. Hossein Fahini, Research Scholar, Michigan State University, USA	**Topic: Learning and Reasoning over Natuarl Language** Reasoning is an action of thinking about something in a logical way. Inference is conclusion reached on the basis of reasoning. Optimization is most effective use of resource. Structured machine learning refers to learning structured hypotheses from data with rich internal structure like sequence tagging. Neural network is an important part of AI which shift AI from rule-based approach to learning based approach.	

Day 3 Session 1	Ms. Akanksha Joshi, C-DAC, Mumbai	**Topic: Natural language Processing with Deep Learning** An extremely interesting session with detailed description of NLP including text representation, deep learning , RNN and handon exercise on sentiment analysis.
Day 3 Session 2	Mr. Jetso Analin, Kubix Square	**Topic: Data Analysis with Python** Speaker explained about the various types of data analytics and the process steps for rule based and statistics-based NLP. He also provided a glimpse on Jupyter notebook with Hands-on examples. Very easy to follow.
Day 3 Session 3	Mr. Jetso Analin, Kubix Square	**Topic: NLP using Python Programming** The Speaker provided Hands-on session on how to import word cloud, library files, etc using NLP. also given a gist of examples on tableau for creating word cloud posters.
Day 3 Session 4	Mr. Sanket Parab, Smart Workforce	**Topic: Data Visualisation** The speaker is expertise in data visualization and performed a quick survey on like sentiment analysis of participants and torched on various kinds of graphs, models, charts available for data visualizing.
Day 4 Session 1	Mr. Sangameshwar Patil, TCS Research	**Topic: Introduction to NLP and Text Mining Application** The speaker briefed an introduction about NLP and explained on the timeline analysis with a constructive example. Also provided the enlightenment on co-reference resolution on entities and applications on timeline analysis and text mining.
Day 4 Session 2	Mr. Kavish Jhaveri, IIT Kharagpur	**Topic: Chatbot Development** Speaker described about the chat bot development with their advantages and drawbacks. He also explained about the concepts of dialog flow with Google AI.
Day 4 Session 3	Mr. Kavish Jhaveri, IIT Kharagpur	**Topic: Google DialogFlow tool** Dialogflow is a natural language understanding platform that makes it easy to design and integrate a conversational user interface into your mobile app, web application, device, bot, interactive voice response system, and so on. Using Dialogflow, you can provide new and engaging ways for users to interact with your product.
Day 4 Session 4	Mr. Sanket Parab, Smart Workforce	**Topic: Training and Optimization of Chatbox** Speaker provided training on chat bot development and optimized the tool to generate acceptable outputs on dialogflow with Google AI. The hands- on experience enlightened the knowledge of all participants.
Day 5 Session 1	Dr. Pooja Jain, IIIT Nagpur	**Topic: Natural Language Processing Applications and Implementation** In this session we learn about different applications of NLP and the implementation using different NLP libraries. The content of session are very much useful to learn NLP application.
Day 5 Session 2	Mr. Santosh Chapaneri,	**Topic: NLP Libraries, Text Classification and Gensim**

	Francis Institute of Technology	The speaker handled practical session on NLP Libraries, Text Classification and Gensim, which are clearly understandable. he also provided the difficulties in NLP and their applications are very easy to follow.
Day 5 Session 3	Mr. Prakash Pimpale, C-DAC, Mumbai	**Topic: Text Classification** The speaker explained about Text Classification, problem formulation, binary classification are easily understandable. the techniques for text classification using rule based, machine learning based classifiers are quite interesting.
Day 5 Session 4	Mr. Santosh Chapaneri, Francis Institute of Technology, Mumbai	**Topic: Word Embedding in NLP** Text to feature Vector that includes bag of words model which converts raw text into words. BoW has certain drawbacks due to which TF-IDF was introduced , it is a score that shows how important or relevant a term is in a given document. key takeaways also include Measuring similarity between words- by cosine similarity which is better than euclidian distance

3. Report on Student Led Conference

Report of Student Led Conference

NSS Unit of L.T. College of Nursing organized a Student Led Conference on 17th August 2020, 2pm-4pm, virtual platform (Zoom) on an occasion of World Breastfeeding Week: "Support Breastfeeding for a Healthier Planet". Total of 82 students participated in this event.

Students presented on topic of Key Stones of Breastfeeding'' highlighting on anatomy and physiology of lactation, types of breastmilk, techniques of breastfeeding WHO Guidelines and Research followed by a Panel discussion.

Dr. Aakanksha Waghe was the Moderator for Panel discussion: "Unfolding Facts of Breastfeeding" Dr. Swati Manerkar, additional Professor and In charge, department of Neonatology, L.T.M.G. Hospital,Sion and Sr. Surekha Pale, Ex-NICU In charge, K.E.M. Hospital, Parel and Mrs. Sebin Bijo, Faculty of L.T.College of Nursing participated as panellist.

Post conference activities included sharing videos on breast feeding, quiz, H5P video on techniques of breastfeeding, sharing a concept map and post-test.

4. Collaborative quality initiatives with other institutions

INCUBATION GRANT AGREEMENT

THIS INCUBATION GRANT AGREEMENT (the "**Agreement**") has been entered into effective as of this 23rd day of April 2021 ("**Effective Date**"), BY AND BETWEEN:

MAHARASHTRA STATE INNOVATION SOCIETY, a Society, registered under the Societies Registration Act, 1860, having its registered office at 1st Floor, Dilwara Building, Plot No.8, Queen Barracks Area, Maharshi Karve Road, Mumbai - 400 021 (hereinafter referred to as "**MSInS**", which expression shall mean and include its successors-in-interest and assigns);

AND

WISE SNDTWU INCUBATION CENTRE, a Section 8 company incorporated under Companies Act 2013, having its registered office at Plot 1, S N D T Women's University, Nathibai Thckersey Road, Marine Lines, Mumbai-20 (hereinafter, referred to as "**Incubator**", which expression shall mean and include its, successors-in-interest and assigns).

AND

SHREEMATI NATHIBAI DAMODAR THACKERSEY WOMEN'S UNIVERSITY MUMBAI, a university having its registered office at Plot 1, S N D T Women's University, Nathibai Thckersey Road, Marine Lines, Mumbai-20 (hereinafter, referred to as "**Host**", which expression shall mean and include its successors-in-interest and permitted assigns).

The MSInS, the Incubator and the Host are hereinafter individually referred to as a "**Party**" and collectively as the "**Parties**".

WHEREAS

A.   The Government of Maharashtra approved Maharashtra State Innovative Startup Policy 2018 under GR No. 201802071225006303, dated February 5, 2018 ("**Policy**"), under which the Maharashtra State Innovation Society ("**MSInS**") was set up. MSInS has been designated as nodal authority for implementing the Policy.

B.   MSInS released the Government resolution regarding Guidelines for Setting Up and Expansion of Incubators under GR No. 201806131215483003 dated June 13, 2018, pursuant to which the Incubator was shortlisted by MSInS for setting up an incubator in the State of Maharashtra.

C.   The Host is the supporting institute of the Incubator and has been made a Party to this Agreement, since the involvement of the Host with the Incubator and the commitment for Matching Amount, was one of the key factors for the shortlisting of the Incubator for the Grant.

Page 1 of 19

D. The Parties are therefore entering into this Agreement in order to summarize the terms of grant to be provided by MSInS to the Incubator, in order to set up and run an incubator in the State of Maharahtra.

NOW, THEREFORE IN CONSIDERATION OF THE MUTUAL COVENANTS AND AGREEMENTS SET FORTH HEREIN AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, THE RECEIPT AND SUFFICIENCY OF WHICH IS HEREBY ACKNOWLEDGED, THE PARTIES HERETO AGREE AS FOLLOWS:

1. DEFINITIONS AND INTERPRETATION

  1.1. Definition

    1.1.1 **"Control"** or **"Controlled"** shall mean, the ownership, directly or indirectly, of more than 50% (Fifty percent) of the voting or economic interest of an entity, or the control over the composition of the board of directors / governing body of such entity or the power to direct the management or policies of such entity, whether by operation of law, by contract, or otherwise;

    1.1.2 **"Intellectual Property"** shall mean any and all intangible property, whether or not filed, perfected, registered or recorded and whether now or hereafter existing, filed, issued or acquired, including but not limited to patents, patent disclosures, patent rights, know-how, works of authorship, copyrights, copyright applications, copyright registrations, design, trademarks, trademark registrations, trade names, service marks, service names, logos, Internet domain names, Internet and World Wide Web URLs or addresses and all other such intellectual or proprietary material.

    1.1.3 **"Investment Committee"** shall mean a committee instituted by Incubator comprising of representatives from the Incubator, senior representatives from the host institute, angel and VC investors, industry experts and the MSInS formed for the purpose of shortlisting Startups who will be eligible to receive Seed Funding in accordance with Clause 2 of this Agreement.

    1.1.4 **"LRS"** shall mean the Liability Register System i.e. the disbursal and management system employed by MSInS to monitor and release the Grants;

    1.1.5 **"MSInS Guidelines"** shall mean (a) the Guidelines for Establishment and Expansion of Incubators released by MSInS under GR No. 201806131215483003 dated 13th June 2018, in accordance with the Policy, and (b) Standard Operating Procedures issued by MSInS, from time to time.

    1.1.6 **"Matching Amount"** shall refer to the 25% contribution expected from the host institute, wherever applicable, as per MSInS guidelines, in accordance with the terms of this Agreement;

1.1.7 "Policy" shall have the meaning assigned to the term in Recital A.

1.2. Interpretation

1.2.1. A reference to:

I a Clause or an Annexure is to a Clause in or an Annexure to this Agreement;

II including and similar words do not imply any limitation;

III a statute includes references to that statute as amended or replaced from time to time;

IV a Party is a reference to a party to this Agreement, and includes that Party's permitted successors and permitted assigns; and

1.2.2. the headings in this Agreement are for convenience only and have no legal effect.

2. INCUBATION GRANT SUPPORT BY MSInS

2.1 MSInS hereby agrees to provide and the Incubator hereby agrees to accept a grant for an aggregate amount not exceeding INR 5,00,00,000 (Indian Rupees Five Crores only) ("Grant") in such tranches as the MSInS deems fit, subject to fulfilment of conditions set out in Annexure I of this Agreement. The Grant shall be subject to applicable taxes and any tax required to be deducted at source.

2.2 The Initial Tranche shall be for an amount of INR 25,00,000/- (Indian Rupees Twenty-Five Lakhs Only) ("Initial Tranche") and shall be released to the Incubator upon fulfilment of the obligations set out in Part A of Annexure I of this Agreement, to the sole satisfaction of MSInS.

2.3 The subsequent tranches ("Subsequent Tranches") shall be released by MSInS upon fulfilment of the obligations by the Incubator, as set out in Part B of Annexure I, determined solely at the discretion of the State Empowered Committee under the terms of Clause 4.2 of this Agreement.

2.4 The Grant is also comprised of seed fund ("Seed Fund") of such amount as MSInS deems fit. The Incubator may also be eligible for such Seed Fund, upon (a) being Operational (as defined below) for a period of at least 1 (one) year and after having demonstrated, to the sole satisfaction of MSInS, incubation support for at least 5 (five) startups for a minimum period of 6 (six) months, and (b) completion of the conditions stated in Annexure II of this Agreement, to the sole satisfaction of MSInS, unless otherwise exempted by MSInS.

For the purpose of this Clause, an Incubator shall be considered "Operational" on the date on which the Incubator brings its first incubatee on board, by executing an incubation agreement with its incubatee.

2.5 The Incubator shall, upon being eligible for Seed Fund, send a written intimation to MSInS informing them about the same ("**Seed Fund Eligibility Notice**"). Upon receipt of the Seed Fund Eligibility Notice, MSInS shall consult with the State Empowered Committee, and the State Empowered Committee and MSInS collectively, shall, at their sole discretion determine whether to disburse the Seed Fund. The Incubator hereby acknowledges that the decision whether to grant Seed Fund, is at the sole discretion of the State Empowered Committee and MSInS, and such decision shall be binding on the Incubator and cannot be challenged by the Incubator.

2.6 The Seed Fund shall be utilized by the Incubator for making investments in startups, approved by the Investment Committee of the Incubator.

2.7 It is further clarified that disbursement of all or any tranches of the Grant and the Seed Fund is purely at the discretion of MSInS and the State Empowered Committee and nothing stated in this Agreement gives the Incubator the absolute right to claim any amount of Grant or the Seed Fund from MSInS.

3. **CAPACITY BUILDING RETAINER**

In consideration for processing the Grant and Seed Fund, MSInS shall be entitled to 2% of all amounts ("**Capacity Building Retainer**") disbursed to the Incubator under this Agreement, for the purpose of organizing programs for the benefit of the Incubators. The Capacity Building Retainer shall be deducted from the Grant and/or Seed Fund prior to disbursal to the Incubator. The Incubator hereby agrees and acknowledges the Capacity Building Retainer payable to MSInS and acknowledges that all amounts received by it from MSInS shall be reduced by 2%, in accordance with this Clause 3, prior to disbursal.

4. **STATE EMPOWERED COMMITTEE**

4.1. The MSInS shall form a committee to evaluate the Business Plan and track progress of the Incubator and utilization of the Grant and Seed Fund (where disbursed) (hereinafter referred to as "**State Empowered Committee**"). The State Empowered Committee shall comprise of experts from the startup ecosystem, including but not limited to entrepreneurs, investors and advisors, nominated to the State Empowered Committee, solely by MSInS, at its sole discretion.

4.2. The State Empowered Committee shall meet periodically to evaluate the progress of the Incubator and shall provide recommendations to the MSInS regarding disbursal of subsequent tranche/s of Grant to the Incubator.

4.3. The State Empowered Committee shall have the following powers:

    4.3.1. approve disbursement of Subsequent Tranches;

    4.3.2. approve disbursement of Seed Fund; and

    4.3.3. any other powers vested in the State Empowered Committee by MSInS, from time to time.

5. COVENANTS OF THE INCUBATOR

5.1. The MSInS shall create a separate account for the Incubator under the LRS under which different heads of expenditure shall be created. The expenditure incurred by the Incubator shall only be under the heads of expenditure approved by MSInS.

5.2. The LRS system is an aggregated bill payment/clearance system and not a bill approval system. It shall be prima facie assumed that all bills uploaded on LRS are appropriately sanctioned by the CEO/Head of the incubator and in case of any kind of misappropriation found, the liability shall fall only on the incubator.

5.3. The Incubator shall be obligated to raise a request on the LRS for any expenditure that will be cleared by MSInS. The Incubator shall be able to claim expenses that were incurred before LRS was operational, however, only the expenses incurred by them after the date on which Letter of Intent was issued to them by MSInS shall be considered for reimbursement.

5.4. As and when requested by the Incubator, MSInS may, at its sole discretion, make the payment for the expenditure directly to the vendor after the Incubator uploads the invoice for the expenditure along with the bank details of the vendor on the LRS. The Incubator, however, shall have an option of raising an advance request for the expenditures, in accordance with Clause 5.2.

5.5. All the routine day to day operational expenses of the Incubator below INR 10,000, shall be recorded under the head, "Petty Cash Expenses". In case the incubator wishes to utilize an amount beyond INR 3,00,000 per annum, written approval from MSInS team shall be required.

5.6. The Incubator shall also fulfil all the obligations set out in Clause 9 of this Agreement.

5.7. The Incubators shall provide the details of revenue generated by it in the format provided in Annexure V of this Agreement and as updated from time to time, on a quarterly basis, within 30 days of end of each quarter.

5.8. The Incubator shall endeavor to meet the target milestones set out in Annexure III

(projected target milestones to be submitted by the Incubator within 30 days of the execution of this agreement) and send the progress of its work and achievement of milestones to MSInS in a format set out in Annexure III, as amended from time to time, on a quarterly basis, within 30 days from end of each quarter.

5.9. Simultaneously with execution of this Agreement, the Incubator shall appoint the Joint CEO of MSInS or any other official of MSInS, as may be informed by MSInS in writing, as an observer on its Board of Directors.

5.10. The Incubator hereby undertakes to attain, on a best effort basis, self-sustenance at the end of 5 years from the Effective Date.

5.11. The Incubator agrees that its travel costs shall not exceed 5% of the Grant amount disbursed under this Agreement. Such travel costs shall be utilized towards travel of the CEO/Manager/any official associate of the Incubator associated directly with the operations of the Incubator. Use of any of the Grant amount towards international travel and any travel cost incurred in excess of 5% of the Grant, shall require the prior written consent of MSInS, which consent shall be given by MSInS at its sole discretion.

5.12. The Incubator undertakes to procure prior written approval from MSInS for disbursing salary to any of its employees, in excess of INR 3,00,000/- (Indian Rupees Three Lakhs Only) per month.

5.13. The Incubator shall maintain separate books of accounts for the Grant received from the MSInS.

5.14. The Incubator shall, inform MSInS, of any change in its management, including but not limited to change in the composition of its board, change in shareholding, change of CEO, or any change in any senior employee of the Incubator, within 7 days of such change.

5.15. The Incubator acknowledges that the Comptroller and Auditor General of India shall have access to the books of accounts of the Incubator, for the Grant received by it from MSInS and hereby undertakes to co-operate in giving such access.

5.16. The Incubator shall comply with the MSInS Guidelines, set out in Annexure VI, as may be amended by MSInS, at its sole discretion, from time to time.

6. MONITORING AND EVALUATION

6.1. It is agreed by the Parties that the proposed support and Grant to the Incubator by MSInS, as envisaged in this Agreement, is subject to successful evaluation of the Incubator to the satisfaction of the State Empowered Committee as provided in Clause

(projected target milestones to be submitted by the Incubator within 30 days of the execution of this agreement) and send the progress of its work and achievement of milestones to MSInS in a format set out in Annexure III, as amended from time to time, on a quarterly basis, within 30 days from end of each quarter.

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4.2 of this Agreement, which will evaluate the Incubator in both quantitative and qualitative manner and in accordance with the MSInS Guidelines.

6.2. MSInS shall, as it deems necessary, send a team for monitoring the progress of the Incubator and in case of significant shortfall in the progress, the MSInS shall, at its discretion and upon the recommendation of the State Empowered Committee terminate this Agreement, without further notice.

7. HOST'S ROLE AND RESPONSIBILITIES

7.1. The Host hereby undertakes to support the Incubator by providing access to its resources including access to infrastructure, laboratories, library and other facilities, teaching resources and staff to the best of its capabilities. The Host hereby undertakes to develop an internal policy for engagement with the Incubator for smooth functioning of the Incubator, and shall provide copies of such policies to MSInS, upon request by MSInS.

7.2. The Host agrees and acknowledges that the involvement of the Host with the Incubator was one of the key factors for the shortlisting of the Incubator for the Grant and therefore it is important to MSInS that the Host continues to supervise the Incubator and ensures compliance of the terms of this Agreement by the Incubator.

7.3. The Host, wherever applicable as per the MSInS Guidelines, hereby undertakes to disburse the Matching Amount simultaneous with the tranches disbursed by MSInS, in accordance with the terms of this Agreement.

7.4. If for any reason, the Host decides to cease its association with the Incubator, such cessation shall require the prior written consent of MSInS.

8. BUDGETARY REQUIREMENTS

8.1. The Incubator shall, within one month of the execution of this Agreement, submit a 5-year business plan ("**Business Plan**") to MSInS, which is acceptable to MSInS. Along with the business plan, Incubator will also provide a utilization plan in a format acceptable to MSInS.

8.2. The Incubator shall, at least 60 days prior to expiry of each financial year, submit a utilization plan for the next financial year and utilization plan of any Grant shall be in accordance with such utilization plan approved by MSInS. Any deviation from the utilization plan shall require the prior written consent of MSInS.

8.3. The break-up of tranches to be released to Incubator shall be finalized by the State Empowered Committee on the review of the Business Plan & Utilization Plan, pursuant

to discussions between the Chief Executive Officer of the Incubator, the State Empowered Committee and/or the MSInS executive team on the basis of the Business Plan, Utilization Plan and quarterly reports submitted by the Incubator.

9. MAINTENANCE AND SUBMISSION OF FINANCIAL STATEMENTS FOR AUDIT

9.1. The Incubator shall submit audited statements of accounts, Auditors' Report and the utilization certificate, evidencing utilization of the Grant disbursed (a) within 60 days from the end of each Financial Year, and (b) along with its request for disbursal of subsequent tranches of the Grant. In addition, MSInS may undertake Special Audit of the incubator whenever it deems fit.

10. EVENTS AND WORKSHOPS ORGANIZED BY MSInS

10.1. The MSInS shall organize events and workshops for the Incubator, at such location as it may deem fit, including but not limited to the premises of other incubators supported by MSInS. MSInS shall provide a minimum of 1 (one) week notice to the Incubator for all such events and workshops organized by it.

10.2. The Incubator hereby undertakes to nominate relevant representatives to attend all the events organized by MSInS.

11. EVENT OF DEFAULT

11.1. Event of default shall include any of the following events (hereinafter referred to as "**Event of Default**"):

11.1.1. Failure of the Incubator to adhere to the provisions of this Agreement including breach or non-fulfillment or non-compliance with the covenants contained in this Agreement.

11.1.2. Use by the Incubator of the Grant and/or Seed Fund for any purpose not permitted under the terms of this Agreement.

11.1.3. Commission of any criminal offence or civil wrong including moral turpitude, sexual harassment, fraud and misconduct by the Incubator and/or key management personnel of the Incubator and/or the Host vis-a vis the Incubator;

11.1.4. Change in Control or management of the Incubator without the prior written approval of the MSInS;

11.1.5. The Incubator ceasing to carry on the business of incubation, as envisaged herein;

11.1.6. Any breach of the terms of this Agreement, if not cured within 7 days.

11.2. Upon the occurrence of an Event of Default, at the discretion of the MSInS, this Agreement shall be terminated, resulting in the following:

  11.2.1. termination of disbursement of any further Grant under this Agreement;

  11.2.2. blacklisting the Host from participating in any future investments and/or any financial support from MSInS and/or its Affiliates, in the future;

  11.2.3. any other action that the MSInS and/or State Empowered Committee may deem fit at their sole discretion.

11.3. In the case of any misappropriation of funds, MSInS has the right to levy a penalty of up to 10% of the misappropriated funds. Decision of the State Empowered Committee (SEC) shall be final and binding in this regard.

11.4. In the case of a delay in submitting periodical audit reports and any other requisite information within the stipulated time, MSInS has the right to ley a penalty of up to INR 10,000 for every such instance. Decision of the State Empowered Committee (SEC) shall be final and binding in this regard.

11.5. Without prejudice to its rights under the law and this Agreement, in case of occurrence of an Event of Default under Clauses 11.1.2, 11.1.3, 11.1.4, 11.1.5, 11.1.6, MSInS shall have the right to require the Incubator and/or the Host Institute to repay the entire Grant amount disbursed by MSInS. The Incubator and the Host Institute hereby agree and undertake to repay the Grant amount disbursed by MSInS to MSInS, immediately and within 30 (thirty) days from the date of receipt of notice for repayment from MSInS, in accordance with the terms of this Clause 11.3.

11.6. In case of any activity undertaken by the Incubator which is deemed unfit by MSInS, MSInS has the right to take appropriate action.

12. BRANDING

MSInS has an exclusive right to use the name of the Incubator in its publicity materials including social media, websites and/or brochures. The Incubator will acknowledge incubation support provided by MSInS under the terms of this Agreement, on its website, marketing materials, communications with investors, etc. In case the incubator is receiving financial support from any other entity apart from MSInS and wishes to give them branding rights, a No Objection Certificate (NOC) shall be obtained by the incubator from MSInS.

13. INTELLECTUAL PROPERTY RIGHTS

The Parties hereby agree that each Party shall continue to retain ownership of its respective Intellectual Property. Except as specifically permitted in this Agreement, neither Party shall have the right to use the other Party's Intellectual Property without the prior written permission of such Party.

14. ONFIDENTIALITY AND NON-DISCLOSURE

14.1. As used herein, "**Confidential Information**" shall mean any and all information disclosed by each Party to the other (including, without limitation, any idea, discovery, development, invention, know-how, information, procedure, technique, algorithm, data, material, document, notes, manual, report, study, photograph, specification, sketch, drawing, design, schematic, prototype, product, source code, research, customer list, price list, product description, Business Plan, marketing plan, financial information, or work in process), whether such information is in oral, written, graphic or electronic form, and whether such information is disclosed before, on or after the Effective Date.

14.2. Subject to the terms of this Agreement, each Party receiving the Confidential Information (hereinafter referred to as "**Receiving Party**") shall not, without the prior consent of the Party disclosing the Confidential Information (hereinafter referred to as "**Disclosing Party**") disclose the Confidential Information to any third party, other than such of its legal advisors or accountants and in case of the Incubator, to its group of investors, mentors and other network partners with a bona fide need to know the Confidential Information for the incubation (hereinafter referred to as "**Representatives**"). Prior to any such disclosure to a Representative, the Receiving Party shall have informed each such Representative of the requirement of this Agreement and shall have obtained from such Representative a binding written agreement requiring the Representative to maintain the confidentiality of the Confidential Information under the terms and conditions substantially similar to this Clause 14.

14.3. The Parties agree that the Disclosing Party shall remain the exclusive owner of the Confidential Information.

14.4. Confidential Information shall not, however, include any information that:

14.4.1. was publicly known and made generally available in the public domain prior to the time of disclosure by the Disclosing Party;

14.4.2. becomes publicly known and made generally available after disclosure by the Disclosing Party to the Receiving Party through no action or inaction of the Receiving Party;

14.4.3. becomes known to the Receiving Party through disclosure by a third party having the legal right to disclose such Confidential Information, provided that such disclosure is made to the Receiving Party without any obligation of non-use or non-disclosure;

14.4.4. is independently developed by the Receiving Party without reference to any

Confidential Information disclosed hereunder;

14.4.5. is approved for release (and only to the extent so approved) by the Disclosing Party; or

14.4.6. is disclosed pursuant to the lawful requirement of a court or governmental agency or where required by operation of law.

14.5. Upon the written request of the Disclosing Party, the Receiving Party shall return or destroy, at the option of the Disclosing Party, within 10 (ten) business days of such request, all tangible manifestations of the Confidential Information. Subsequent to any return of the Confidential Information, the Receiving Party will continue to be bound by its obligations hereunder and such obligations shall survive beyond the tenure of this Agreement till another date, if any, as may be specified.

15. REPRESENTATIONS AND WARRANTIES

15.1. Each Party represents and warrants to the other that, as on the Effective Date of this Agreement:

15.1.1. It has the authority and capacity to enter into this Agreement and the terms of this Agreement can be fully enforced against it.

15.1.2. It is free to enter into this Agreement without violation of any third-party rights and that entering into this Agreement shall not result in a violation of any agreement or restrictive condition that it may have with any third party.

15.1.3. Is not a party to any arrangement or agreement which shall compromise its ability to carry out its duty.

15.1.4. It shall not enter into any arrangement which would impose any obligation inconsistent with this Agreement or which would restrict or conflict with the performance of its obligations under this Agreement.

15.2. Additionally, the Incubator hereby acknowledges that the disbursement of the Grant and/or the Seed Fund, is solely at the discretion of MSInS and nothing in this Agreement creates an obligation on MSInS to mandatorily disburse the Grant and/or the Seed Fund. Further, MSInS at no point of time shall be liable to disburse any funding to incubatees of the Incubator. The Incubator shall not misrepresent or guarantee funding on behalf of MSInS to its incubatees.

16. NO PARTNERSHIP OR AGENCY

The Parties have entered into this Agreement as independent contractors. Nothing in this Agreement shall be construed to create any relation of a partnership, joint venture or

employment between the Parties or to make a Party an agent of the other Party for any purpose.

17. **INDEMNIFICATION**

The Incubator hereby agrees to indemnify, defend, and hold harmless the MSInS and its directors, agents, advisors, representative, contractors, subcontractors and employees (each, an "**Indemnitee**") from and against any and all liabilities, damages, losses, expenses, claims, demands, suits, fines, or judgments (each, a "**Claim**" and collectively, "**the Claims**"), which may be suffered by, incurred by, accrued against, charged to, or recoverable from any Indemnitee, by reason of any Claim arising out of or relating to any act, error or omission, negligence, or misconduct of the Incubator, its promoter or any representative or employee of the Incubator or promoter without limitation, Claims arising out of or relating to any misrepresentation or breach of warranty of any representation or any breach of any covenant set forth in this Agreement.

18. **TERM AND TERMINATION**

18.1. Notwithstanding Clause 11, this Agreement shall be valid for a period of 5 (Five) years, from the Effective Date ("**Term**"), unless terminated earlier by MSInS in accordance with the terms of this Agreement.

18.2. The Parties hereby confirm that the Incubator shall not have the right to terminate this Agreement during the Term, without the prior written consent of MSInS.

19. **ASSIGNMENT**

The Incubator and its promoter shall not be permitted to transfer or assign any of their rights or obligations under this Agreement, without the consent of MSInS, to any third party. It being clarified that the MSInS shall have the right to assign this Agreement to any other party or person.

20. **GOVERNING LAW**

This Agreement shall be construed and interpreted in accordance with the laws of the Republic of India and the courts at Mumbai shall have exclusive jurisdiction.

21. **ARBITRATION & DISPUTE RESOLUTION**

21.1. All disputes and differences arising out of or in connection with any of the matters set out in this Agreement (hereinafter referred to as "**Dispute**"), if not resolved by amicable settlement within 30 (thirty) days from the Dispute, shall be finally and conclusively determined by arbitration by a sole arbitrator mutually appointed jointly by both the parties, in accordance with the Arbitration and Conciliation Act, 1996, of India, for the time being in force.

21.2. The arbitrator shall reach and render a decision in writing with respect to the

appropriate award to be rendered or remedy to be granted pursuant to the Dispute.

21.3. To the extent practical, decisions of the arbitrator shall be rendered no more than 90 (Ninety) days following commencement of proceedings with respect thereto.

21.4. The arbitration shall be conducted in English, and the venue for arbitration shall be Mumbai.

21.5. All costs of arbitration (excluding lawyer fees) shall be borne by the Parties in dispute, equally.

21.6. The award shall be binding on the Parties subject to the Applicable Laws in force and the award shall be enforceable in any competent court of law.

22. NOTICE

All notices, requests or other communications to any Party shall be sufficient if contained in a written instrument delivered in person, sent by e-mail or sent by registered or certified mail or sent by overnight courier, addressed to such party at the address set forth below.

Maharashtra State Innovation Society	Incubator
Address: Maharashtra State Innovation Society, 1st Floor, Dilwara Co-operative Housing Society, Queen Barracks AreaMaharshi Karve Road, Mumbai – 400 021	Address: PLOT 1, S N D T WOMEN'S UNIVERSITY, NATHIBAI THACKERSEY ROAD, MARINE LINES, MUMBAI – 400 020
Kind Attn: Jt. CEO, MSInS	Kind Attn: Dr. Ashish R. Panat, Director, Innovation, Incubation and Linkages, SNDT Women's University
e-mail: mithun@msins.in	e-mail: director.iil@sndt.ac.in
Phone No.: 9820342118	Phone No.: 8788637989

23. ENTIRE AGREEMENT

This Agreement contains the entire terms of understanding and contractual agreement between the Parties relating to the subject matter hereof and may not be modified in any manner except by an instrument in writing signed by a duly authorized representative of each of the Parties.

24. MODIFICATION

This Agreement may not be altered or modified except in writing, duly executed by an authorized representative of MSInS.

IN WITNESS WHEREOF the Parties have caused this Agreement to be executed in duplicate originals by their duly authorized representatives.

For **MAHARASHTRA STATE INNOVATION SOCIETY**

For **WISE SNDTWU INCUBATION CENTRE**

For
WISE-SNDTWU INCUBATION CENTRE

Name: Shri Deependra Singh Kushwah, I.A.S

Designation: Chief Executive Officer

Date: 07 JUN 2021

Place: Mumbai

Name: Ashish R. Panat

Designation: Director Innovation, Incubation & Linkages

Date:

Place: Mumbai

For **Shreemati Nathibai Thackersey Women's University**

Name: Prof Mira K Desai

Designation: Registrar (Additional Charge)

Date:

Place: Mumbai

IN WITNESS WHEREOF the Parties have caused this Agreement to be executed in duplicate originals by their duly authorized representatives.

For **MAHARASHTRA STATE INNOVATION SOCIETY**

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Name: Shri Deependra Singh Kushwah, I.A.S

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Designation: Director Innovation, Incubation & Linkages

Date: 07 JUN 2021

Date:

Place: Mumbai

Place: Mumbai

For **Shreemati Nathibai Thackersey Women's University**

Name: Prof Mira K Desai

Designation: Registrar (Additional Charge)

Date:

Place: Mumbai

ANNEXURE I
PART A
CONDITIONS FOR RECEIPT OF INITIAL TRANCHE

The Initial Tranche shall be released, at the sole discretion of the MSInS, upon submission of the following documents by the Incubator, subject to verification by MSInS:

1. Incorporation Certificate/ Registration Certificate of the Incubator evidencing incorporation of the Incubator as a Section 8 company, under the Indian Companies Act 1956 or 2013.

2. Details of the bank account created for the purpose of receiving the Grant.

3. Duly signed copy of this Agreement.

4. Proof of availability of matching contribution in case the Incubator belongs to Category II, Category III or Category IV, as prescribed under MSInS Guidelines.

PART B

The subsequent tranches shall be released upon the fulfilment of the following obligations:

1. Due diligence by MSInS for compliance of the Incubator of the conditions laid down by the MSInS Guidelines and verification of claims of the Incubator in its proposal submitted to the MSInS.

2. Recommendation given by the State Empowered Committee with respect to the progress of the Incubator on the target milestones set for the Incubator by MSInS.

3. Proof of availability of matching contribution in case the Incubator belongs to Category II, Category III and Category IV in accordance with the MSInS Guidelines.

4. In case the Incubator does not own a workspace, a lease agreement with the Host institution shall be submitted to the MSInS with the following particulars:

   a. At least 5000sq.ft of space should be reserved for the incubator. This may be relaxed in exceptional circumstances only after the approval of MSInS State Empowered Committee.
   b. The lease agreement shall be for a period of at least 10 years.
   c. Incubation Centers which already have a dedicated space from the Host institution would also be required to provide a copy of the lease agreement which extends for at least the next 10 years.

5. Submission of proof regarding appointment of a professional and full time Chief Executive Officer and Manager of the Incubator.

6. Documentary evidence from the Host that it shall simultaneous with each subsequent disbursement, disburse the Matching Amount.

ANNEXURE II

ADDITIONAL CONDITIONS FOR ELIGIBILITY OF SEED FUND

1. The Incubator shall be required to create a separate bank account for managing the Seed Fund, which shall be different from the bank account/s of the Incubator used for the purpose of handling its capital and operational expenditures.

2. The Incubator shall spend a minimum of 10% and not more than 30% of the Seed Fund over a period of 5 years for the purpose of providing seed funding to its incubatees.

SNDT Women's University, Mumbai
Department of Lifelong Learning & Extension and
Department of Social Work

National Webinar on Lifelong Learning and New Education Policy 2020

Brief report of National Webinar on Lifelong Learning and New Education Policy 2020 jointly organised by the Department of Lifelong Learning (LLE) & Extension and Department of Social Work

Introduction

National Webinar on Lifelong Learning and New Education Policy 2020 was jointly organized by SNDT Women's University, Mumbai's Department of Lifelong Learning & Extension and Department of Social Work on 8th September 2020 from 4.00 pm to 6 pm. Prof. K.P. Parthasarthy gave key note address and Prof. Shashikala Wanjari, Hon'ble Vice Chancellor, SNDT Women's University gave presidential address. Speakers of the National Webinar were Prof.(Retd.) Dr. P. Adinarayana Reddy-Sri. Venkateswara University, Tirupati, Prof. Dubey-University of Delhi, Professor Vishnu Prasad Sahu-DLLE, NEHU, Shillong.

At the beginning of the webinar Dr Rohini Sudhakar, Associate Professor of Department of LLE welcomed the participants of the webinar and introduced Prof. Asha Patil, Director and Professor, Department of LLE and Head, Department of Social Work to the participants of the webinar by mentioning that Prof. Asha has been involved in organizing various lifelong learning programmes from last 3 decades and has written various articles and books on adult education. Prof. Asha gave inaugural address in which she introduced the guest to the subject of the National Webinar. She mentioned that the New Education Policy 2020 has covered issues of marginalised section of the society as first time the issue of education of transgender children has been addressed by the NEP 2020.

Prof. K.P. Parthasarthy was introduced to the participants of National Webinar by Prof. Asha Patil. She mentioned that Prof. Parthasarthy, Vice Chancellor, Tamil Nadu open University Chennai is specialised in the field of andragogy and has served as Professor

for 22 years in Bharathidasan University. He is the founder Director of Institute of Entrepreneurship and Career Development.

Afterword, Prof. Asha Patil introduced Hon'ble Professor Shashikala Wanjari, Vice chancellor of SNDT Women's University. Prof. Asha mentioned that Madam Vice Chancellor was the recipient of a Commonwealth Scholarship and that for one of her books she received an award. And Prof. Shashikala Wanjari has written many papers at international and national conferences and being a Vice Chancellor of SNDT Women's University she organized various innovative programmes, seminars and conferences at the local, national and international level. Prof. Parthsarthy in his powerful keynote address congratulated SNDT Women's University for organising a National webinar on Lifelong Learning and NEP 2020. Prof. Parthasarathy mentioned the salient features of the NEP 2020 and said that first time the education policy of the nation has given importance on educating children in their mother tongue. He said that the policy has emphasised on focussing on school dropouts and the need for ensuring that they would get a chance to acquire knowledge and skills. He said that the Departments of lifelong learning will have to play a major role in reaching out to the un-reached. Further, Prof. Parthasarathy mentioned that in the near future, Teachers' Education is going to change a lot and accordingly, the country would need to organise new faculty development programs and in-service training of teachers to ensure that the changed concerns given in the policy would be well incorporated in teachers' education.

Professor Wanjari, in her presidential address congratulated the faculty members of the Department of LLE for organising the National level Webinar on LL and NEP 2020. She said that the importance of education has been mentioned in our historical documents. It is said that knowledge is the one that liberates human beings " *sa vidya ya vimuktaye*". There is a need to create a knowledge society and that all out efforts need to be made to ensure that hundred percent literacy is achieved by our country. The value of education among the masses will be inculcated to empower citizens and that one of the ways to do that could be to spread digital literacy among masses.

 Then, Dr. Rohini Sudhakar introduced Prof. Dr. P. Adinarayana Reddy, speaker of the National Webinar by mentioning that he has authored hundreds of articles and various books on adult and continuing education and has done valuable work in the field of lifelong learning by introducing various lifelong learning programmes at Sri. Venkateswara University, Tirupati for which the Department had received UNESCO-NLMA award in the year 2006. In his speech Prof. Reddy said that the new education policy would bring a transformational change in the system of education as the pattern of the education system now has become 5+3+3+4. The new education policy emphasises on foundational literacy and vocational education. NEP offers multiple entries to learners of Higher education and facility of transfer of credits. He mentioned that proper infrastructure and political will is needed to have a quality education.

Then, Dr. Prabhakar Chavan, Associate Prof. Department of LLE, SNDT Women's University introduced Prof. Dubey, Department of LLE, University of Delhi. Prof.

Dubey mentioned that NEP 2020 has suggested a lot of reforms. The policy demands usage of technology in education. One has to note that so far Indians are used to learning in groups and they will need to change the digital world and that conventional issues will need to be addressed in different manner and that there is a need for preparing ourselves for the coming change and we need to organise outreach programmes to reach out to all.

Later, Dr Prabhakar Chavan introduced Professor Vishnu Prasad Sahu, Head, Department of Lifelong Learning and Extension North Eastern Hill University(NEHU), Shillong. Prof. Sahu briefed the participants about the ongoing work of the Department of LLE of NEHU and how they are trying to reach out to various people. While discussing the career opportunities to those undergoing programmes in Lifelong Learning Prof. Sadhu mentioned that those who undertake courses in lifelong learning can get job opportunities at the international agencies like UNICEF, UNESCO, UNDP, etc. The students can get job avenues in various national level programmes of government departments who work for the marginalized section of the society and those who complete their learning in lifelong learning will have a lot of scope to take up jobs at the local level offices of NGOs.

At the end of the webinar Dr Rohini Sudhakar proposed a vote of thanks.

Report - NATIONAL WEBINAR ON REFLECTIONS ON "NATIONAL EDUCATION POLICY- 2020

Title: National Webinar on "Reflections on National Education Policy-2020

Date: 8th to 11th September 2020, 11:00am- 1:00 pm

Platform: Virtual (Google Meet, YouTube Live, Facebook Live)

About the webinar:
Education is fundamental for achieving full human potential, developing an equitable and just society, and promoting national development. Providing universal access to quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. This National Education Policy aim is to provide high quality education to all, and making India a global knowledge superpower. The vision of the Policy is to instill among the learners a deep-rooted pride in being Indian, not only in thought, but also in spirit, intellect, and deeds, as well as to develop knowledge, skills, values, and dispositions that support responsible commitment to human rights, sustainable development and living, and global well-being, thereby reflecting a truly global citizen.

Considering the role of the different stakeholders four days webinar has been organized by the S.N.D.T.Women's University from September 8-11,2020. The details of the sessions are as follows.

Day #1

OVERVIEW OF THE SESSION:
The webinar began with the university song, Vice Chancellor Prof.Shashikala Wanjari welcome guest speakers. Dr Ashish Panat IQAC coordinator, Director IIL shared the webinar objectives with the webinar speakers, organizers and all the participants.

The National Webinar on reflections on NEP 2020, held on 8th September at 11:00 am. We had 2 speakers invited for the day. The first speaker was Dr. Sachchidanand Joshi Second speaker Prof. Gopal Krishna Thakur

Session 1: Promotion of Indian Languages, Art and Culture by **Dr. Sachidanand Joshi, National president Bhartiya Shikshan Mandal, New Delhi**,

Dr. Joshi described how Britishers tried to destroy Indian languages by calling it a less superior language and tried to impose the compulsory learning English language on us. And also spoke about the greatness of Indian languages and also invites other countries to know its culture and benefits. Also, later added speaking how an individual can act as a responsible citizen and take the advantage of the given opportunity to help in preserving the Indian languages, Art & Culture for future generations. **The speaker emphasized on encouraging the creativity, flexibility in education, and flexibility in curriculum**.

Session 2: Structural and Institutional Reforms in School Education by **Prof Gopal Krishna Thakur, Professor, Education, Mahatma Gandhi Hindi Antarrashtriya Vishwavidyalaya , Wardha**

The main focus was put on the ECCE (early childhood care and education) and also about the right to education act. **He emphasized on the Indian socio-economic status. The main aim was to educate and provide facilities and develop structure where less privileged children can also take the advantage of it. And to develop the education system in such a way where work can be done on the overall development of children.** In right to education Act, all children have the right to take education and make use of the facility provided by the government which is free and compulsory education for all children in the age group of 6-14. And also spoke about the responsibility assigned to NCERT for the national curricular and pedagogical framework for Early Childhood Care and Education to develop in schools. **The further spoke about the need for inclusive education in equitable society and encouraged infidel to work on the implementation programmers.**

Day #2

Day #2 of the National Webinar on Reflections on NEP 2020, 9th September 2020, 11:00 a.m. We had 2 speakers speaking about the strengths and challenges of NEP 2020 and about equitable and inclusive education.

Session 1: National Education Policy:2020 – Key Strengths & Challenges by **Dr. Himanshu Rai, Director IIM Indore.**

Dr. Himanshu spoke about the 3 strengths and the challenges that lie within the NEP 2020:

(1) **Multidisciplinary approach to education**, which will make education very, very strong and lead to character building of a student, though he felt the challenge would be the misconception that many states have about imposition of a particular language and would require taking together all the states into this.

(2) Autonomy to Educational Institutions is the second strength wherein he stressed that autonomy should mean giving complete freedom in the true sense to the institutes **and allow institutions to express themselves and come up with innovative programs, and the need for trust between Bureaucracies and Educational Systems.**

(3) **Academic Bank of Credit (ABC)** which would digitally store the academic credits earned from various recognized Higher Education Institutions, which can also be transferred and counted as a part of the final degree, but he was concerned about the expiry date of the different academic credits earned through the various courses looking at how fast the world is changing and that there's a long way to go as it requires taking everyone on board.

Session2: Equitable and Inclusive Education by **Prof. Sanjeev Kumar Sharma Vice Chancellor, Mahatma Gandhi Central University, Motihari, Bihar.**

Prof. Sanjeev Kumar mention that this is the first time that India has got an educational policy that is in its true essence truly Indian, which speaks about universalization of Early Childhood Care Education (ECCE), national mission to

focus on basic literacy and basic numeracy, no rigid separation between arts and sciences streams and removal of separation between vocational and academic and curricular and extra-curricular activities. Sir also stated that it is the first education policy with an objective of revising and revamping the Indian education structure and move towards creation of new system that is aligned with the aspirational goals of 21st century education.

Day # 3

Session 1: This session was led by **Shri. Ramanan Ramnathan, Director, AIM, Niti Ayog on the topic of "Scope for Integrated and Collaborative Research IPR and Start-ups in NEP 2020".** Mr. Ramnathan **emphasized the importance of the NEP 2020 which comes after 35 years. Since we are moving towards an "Atmanirbhar Bharat" which specifically focuses on entrepreneurship and innovation**, Mr. Ramnathan highlighted how the mission involved empowerment at the individual, community, state as well as national level. **He emphasized the need of the demographic bulletin as well as that of capitalizing the demographics.** Application of knowledge gained has taken a step backward, since our aim was only on scoring marks but not learning something out of that course. While talking about the attitude of our current education system towards the creation of job seekers, Mr. Ramnathan elaborated the increasing need to become job creators. There was also a deliberation on the 5 pillars of "Atmanirbhar Bharat", **emphasizing the need for the development of physical and digital infrastructure as well as job creation in the local community.** While talking about start-ups, **Mr. Ramnathan highlighted the importance of product, process and service innovation as well as affordable, accessible and available technology.** Change is the only constant in our world and leveraging demand in our fast growing economy, important. **Towards the end, the Q&A session discussed the limitations of the policy with regard to its reach in rural areas, the benefits of the Atal innovation Mission and Atal tinkering labs to students and entrepreneurs, and the need for creating a culture of innovation while identifying the problems in the community and solving them.**

Session 2: Transforming Culture of Assessment in NEP 2020 was led by **Prof. Shailendra Kumar Shukla, Department of Mechanical Engineering, IIT BHU, Varanasi.** Prof Shukla spoke about how program objectives will be reassessed on the basis of evaluation as well as the NEP's guidelines on the goals of assessment for institutional effectiveness. **He emphasized how this institutional effectiveness can be achieved through the functioning of the 3 P's- Punctuality, Performance and Pricing.** If results and assessments are punctual with good performance it will impact positively on the institution. There was a comprehensive discussion on the difference between the traditional approach and the approach that NEP 2020 formulates. The traditional method that we have been exposed to focused on just rote learning, memorizing the subject and scoring marks rather than understanding and utilizing the subject matter. On the other hand **this policy is focused on research, performance and**

application with emphasis on the holistic development of the student. The Q&A session involved discussions about the challenges of assessment in a multi-disciplinary approach as well as its benefits. **The speaker gave a comprehensive understanding of the challenges because there will always be a difference between the culture of technical and non-technical courses and it will also be a challenge for the faculties.**

Session 3: The third and last session of the 3rd day was led by **Prof. Nilima Bhagabati on the topic of "Teacher Education and the NEP".** Prof. Bhagabati gave a comprehensive understanding of previous Educational Policies and their lack of effectiveness while highlighting why scientific educational structures are important for the transformation of educational development. She spoke on how this new education policy implemented from a scientific point of view is going to impact the future of the new sustainable Bharat, positively. **She also discussed the focus on primary education, reasoning and critical thinking as well as the multidisciplinary approach in NEP 2020.** She discussed the significance of teacher training and professionalized teacher education through examples from the academic world. The Q&A session opened a discussion on how the role of teachers will change the student-teacher dynamic as well as if there will be a de-feminization of the teaching community. Lastly, **Prof. Bhagabati noted how it is a teacher's responsibility to enlighten, upgrade, know and transfer knowledge to the student community.**

Day #4

Session 1: The first session on 11th September 2020 (Day 4) was led by **Prof. Ami Upadhyay, Vice Chancellor, Babasaheb Ambedkar Open University, Ahmadabad, Gujarath,** on the topic of "Multidisciplinary Education: Role of Art and Culture." She spoke about the need for this remarkable change in this education system since we've been following the teaching patterns that the British left us with. Prof. Upadhyay traced the evolution of the Indian education system from the ancient times through the British period to the current times, emphasizing how this is the right time to inculcate new values. The traditional policy packed us in tight compartments which didn't allow the students to evolve and explore diverse areas and fields apart from their excellence in academics. She also discussed the role of the education system in often killing personality and closing the door to different possibilities. **While talking about the multidisciplinary approach, Prof. Upadhyay highlighted the role of Indian culture in educational practices and the need to develop a cultural understanding**. **Academics along with equal importance to Arts and cultural activities transforms students into a better person and teaches them values, leadership qualities, communication, empathy, and most importantly teamwork which cannot be taught in isolation and therefore there was a need for inculcation of this area into the new education policy.** The Q&A session involved a brief discussion on whether or not Sanskrit education will be able to provide job opportunities in the government sector and how we as a society should move beyond the education-job dynamic.

Session 2: The second session was led by **Prof. Mrunalini Fadnavis, Vice Chancellor, Solapur University,** on the topic of **"Role of Technology in Education"**. Technology is a part of life and we cannot escape it. Prof. Fadnavis started her session with a brief discussion on the multi-pronged effects of digital education. **She emphasized how education now has to be characterized by 3 D's and 2 C's- discipline, development, digital education, curiosity and creativity.** With the help of statistics she highlighted the need to fill the gap of digital education since for 70% of the educated population the internet penetration is 50%. She spoke about the reach of internet connectivity and how it will be helpful for the community at large. Further, topics like content and interaction, curations, student mentoring and redesigning of the classroom were also discussed in detail. The Q&A session involved an exchange of views about the implementation of the policy and the uniqueness of NEP 2020 in comparison with educational policies of other countries. **She also stressed about the importance of entrepreneurship and startups in today's world, which is one of the main mottos of "Atmanirbhar Bharat". Instead of being employed, the youth should focus more on creating employment by starting their own ventures which would create more opportunities.**

Session 3: The third and last session for the day as well as the four-day webinar was led by **Prof. Sybil Thomas on the topic of "Empowerment of Teacher and School Leadership."** Prof. Thomas noted how the specifications of NEP 2020 would provide a personalized and generative way to aid teacher empowerment. **She highlighted three types of empowerment that would need to be focused on: psychological, organizational and community. Teachers should be empowered in all these aspects so that they can use these for collective capacities in the schools and institutions. Teacher motivation, mobilization of resources, perceived competence, and efficacy were among the other topics that were elaborated upon.** Prof. Thomas discussed **the effectiveness of the policy at school, higher education and teacher training institutions level while discussing content mastery, pedagogical knowledge and professional development. A comprehensive understanding of research-driven higher education, curriculum development, inter-intra personal skills and accountability was also provided.** Lastly, Prof. Thomas elaborated on **four important changes: freedom to choose how to do the work, value ascribed to empowerment, competence when unsupervised and impact.** The Q&A session dealt with an exchange on the need for change in ideology among the older generation, job avenues in art and craft sectors, and plans for teacher training, eligibility test and competency, technological drawbacks and merit assessment of teachers. The session ended with a vote of thanks.

Dr. Ashish R. Panat,

IQAC Coordinator,

SNDT Women's University Mumbai

7. Webinar on Evolving Role of Nurses: Present and Future

Leelabai Thackersey College Of Nursing
S.N.D.T. Women's University

International E Webinar on

Evolving role of Nurses: Present & Future

5th December 2020

Webinar Started with the University Song, Virtual Lamp Lighting & Prayer dance. Dr. Nancy Fernandes, Principal LTCN opened the theme for the webinar *"EVOLVING ROLE OF NURSES: PRESENT & FUTURE"*.

Dr. Shobha Gaikwad Chairperson introduced the panel member and gave an introduction on the topic.

Panel members: -

Ms. Thankam Gomez (India), Ms. Teresa Joseph (India), Ms. Vandana (Australia), Ms. Jayashree Krishnakumar, Ms. Devashree Karande, Ms. Ayesha Gonsalves (USA)

Ms. Thankam Gomez: - Shared her experience on her journey to Nursing from a staff nurse to founder and CEO of CYNGIA healthcare. She shared different roles where nurses can evolve, she also mentioned and shared pictures where a nurse evolving and growing and becoming a nurse practitioner, independent stoma care Nurse, etc.

Ms. Teresa Joseph: She highlighted how she moved from her journey of being a nurse to Assistant Commissioner of Income-tax, for revenue service and for deputy services, she also shared tips for preparing for state administrative examination or UPSC.

Ms. Vandana: Madam shared healthcare-related professionals, discussed Nursing as a profession, importance of health informatics i.e. maintaining electronic health records. She told about research skills, communication skills, effective documentation, etc., She also discussed health informatics as a profession. This course is delivered as a graduate certificate, diploma, or Master's, it is open to both medical and IT professionals, involves the study of AI, data modelling, etc.

Ms. Jayashree Krishnakumar: She stressed the entrepreneur role as CEO of the hospital about building and managing her own maternity nursing home to the maternity hospital.

Ms. Devashree Karande: She mentioned her role of being an assessor which included mutual learning, network, collaboration, representing her own profession, and improving safety.

Ms. Ayesha Gonsalves: Spoke about Nursing informatics (NI), the responsibility and duties of nursing at the bedside, and how technologies help to reduce errors and reduce cost. She discussed the requirements to become a NI, careers in NI.

Conclusion: -

Ms. Devita Nalawade presented a vote of thanks to all panellists, technical support team, invited guests, and the participants and concluded the webinar with the National anthem

Principal

Address : 1, Nathibhai Thackersey Road, Churchgate, Mumbai 400 020
Tel.: 2203 1879 Ext.: 268-269   Tel./Fax : 2208 7422   Email : ltcn@rediffmail.com

Leelabai Thackersey College Of Nursing
S.N.D.T. Women's University

REPORT

International E Conference: Artificial Intelligence in Nursing

30th, 31st October, and 1st November 2020

L.T. College of Nursing

S.N.D.T. Women's University

I quote "Not everything that can be counted counts and not everything that counts can be counted."

- Albert Einstein

L. T. College of Nursing, SNDT Women's University under the banner of Tarangan Alumni Association, LTCN conducted a 3 days International E Conference on Artificial Intelligence in Nursing: A Hope A Promise held on the 30th, 31st October, and 1st November 2020.

Special Thanks to Maharashtra Nursing Council for granting credit points for the conference.

In all 1340 participants enrolled for the conference from India and abroad on all three days. 589 participants logged in from abroad. In all 423 received MNC credit points.

Day 1 30th October 2020

The inaugural program began with the University song followed by the virtual lamp lighting which was presided by Chief Guest Vice Chancellor Dr. Shashikala Wanjari, Guest of Honor Maharashtra Nursing Council (MNC) In charge Registrar Ms. Rachel George, and all the panel members and participants from Zoom and You tube Live followed by the welcome prayer dance.

Principal Dr, Nancy Fernandes opened the theme of the conference "AI in Nursing: A Hope, A Promise".

Thereafter our chief guest Dr. Shashikala Wanjari in her message to the audience highlighted the current need of including Artificial Intelligence in nursing curriculum.

Principal
T. College of Nursing

Leelabai Thackersey College Of Nursing
S.N.D.T. Women's University

Ms. Rachel George via voice mode highlighted the purpose of Artificial Intelligence in Nursing, using computers to analyze the data and to make intelligent patient care decisions in the healthcare industry.

The conference was planned by a main theme on each day which was further divided into 2 sub panels with expert speakers i.e., alumni from India and abroad talking on various sub themes. Speakers for the 3 days of the conference were from India, USA, UK, Ireland, France, Oman, Abu Dhabi, Dubai, Australia.

Delegates were from India, USA, UK, Australia, Ireland, Canada, France, Oman, Abu Dhabi, Gulf, Africa, New Zealand.

Each day the session began at 3 pm with cultural saga followed by the first plenary session at 4 to 5.30 pm IST and the second from 5.30 pm to 7.00 pm.

From 7.00 pm to 7.30 pm Voice of Leader Panel was planned where experts were invited only from India to give their views about the panel and add on to the expert presentation as per their expertise.

Day 1: Theme: Basics of AI

Panel Discussion 1 Basics of AI: CHAIRPERSON: Ms. Alka Kalambi:

Panel members: -

Ms. Pearl Cruz: India: Technology here we come

Ms. Sudhaya Vinodkumar: France: AI; Myths & Reality

Dr. Meera Achrekar: India: AI: Myths & Reality

Ms. Nancy Zacheriah: UK: Challenges in embracing newer learning

Ms. Prajakta Hindlekar: India: Challenges in embracing newer learning

The key message from the panel was AI technologies help to introduce, educate, create, develop, analyze and establish. AI is not a threat to human jobs; AI will never replace the jobs of nurses. The nursing curriculum requires a change.

Address : 1, Nathibhai Thackersey Road, Churchgate, Mumbai - 400 020.
Tel.: 2203 1879 Ext.: 268-269   Tel./Fax : 2208 7422   Email : ltcn@rediffmail.com

Leelabai Thackersey College Of Nursing
S.N.D.T. Women's University

Panel 2 Basics of AI: Chairperson Dr. Phalakshi Manjrekar (India)

Panel members:

Ms. Reni David: Dubai: Can Nurses remain relevant in a technologically advanced future

Ms. Juliet Joji: India: Can Nurses remain relevant in a technologically advanced future

Ms. Rija Bobby: UK: Are the leaders prepared to embark on this new journey

Ms. Swapna Joshi: India: Are the leaders prepared to embark on this new journey

Ms. Mareena Joseph: India: Training Novice Nurse in Handling New Art

Ms. Clare D'Mello: Training Novice Nurse in Handling New Art

Takeaway messages from this panel were delivered on topics related to AI and machine learning, Supervised and unsupervised learning, AI can be third eye in health care, Importance of empowering nurses and the challenges involved in training novice nurses.

Panel 1: Voice of Leaders: CHAIRPERSON: Ms. Shaila Bhalekar (India)

Panel members:

Dr. Swati Rane

Ms. Madhura Mule

Ms. Pravina Mahadalkar

Ms. Meenal Rane

Experts gave a power-packed model of care-centered value-sensitive design which involved logical thinking, strategy, and algorithm planning. AI will cater health needs of a large population, and reduce the burden of repetitive tasks of HCW.

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Day 2 31st October 2020

Theme: AI and Services

Panel 3: AI & Services: Chairperson: Ms. Elizabeth Joseph

Panel members: -

Dr. Kavita Bhalekar: Abu Dhabi

Ms. Havovi Fouzdar: India

Dr. Anita Collins: USA

Dr. Agnes Therady: USA

Ms. Elizabeth David: India

The speakers gave power pack knowledge and experience from all over the globe about clinical data management system, Rothman Assessment Index, EPIC Deterioration Index and summarizing with all the advanced tools.

Panel 4: AI & Services: Chairperson Ms. Shine Anil

Panel members: -

Ms. Sonali Khandale

Ms. Belinda Sawant

Ms. Radhika Merchant

Ms. Mugdha Lad

The two major focuses of this panel were Telehealth and telenursing need of the hour. The most awaited breath-taking session and viewership increased threefold by the video presentation of the Robotic surgery. This session not only covered the parts of the robots, but the docking, instruments used, robot's role, nurse's role, and the surgery itself

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Panel 2: Voice of Leader 2: Chairperson: Ms. Sindhu Nair

Panel members:

Dr. Sneha Vaidya

Ms. Roselind Mathews

Ms. Jemi Pullanthara

Dr. Meena Ganapathy

Day 3 2020

Theme: AI & Education

Panel 5: AI & Education: Chairperson Dr. Nancy Fernandes (India)

Panel Members:

Ms. Shreedevi Balachandran (Muscat)

Ms. Sushila Samuel (India)

Ms. Seema Pillai (India)

Ms. Anita D'Souza (India)

Ms. Neetal Suryagandh (Australia)

Dr. Pratima Naik (India)

The panel discussed importance of simulation on student's learning, problem solving, 360 degrees shift critical care thinking model, blended approach, online interface leo models were explained and stressed importance of creating a self-paced learning environment for students.

Panel 6: AI & Education: Chairperson: Dr. Prabha Dasila(India)

Panel Members:

Dr. Vijaya Kumardhas (UAE)

Dr. Rita Lakhani (India)

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Ms. Beena Varghese (India)

Dr. Avani Oke (India)

Ms. Mitchel Fernandes (India)

Dr. Shobha Gaikwad (India)

The panel highlighted the need of incorporating a hybrid model in education, components of virtual learning environment, augmented learning the future in education.

Voice of Leader 3:

Chairperson: Dr. Pratibha Chandekar

Panel Members:

Dr. Nilima Sonawane

Dr. Rupali Salve

Dr. Sripriya Gopalkrishnan

Ms. Prachi Dharap

The speakers added and augmented to the rich knowledge of the panel by highlighting preparation of students and faculty to make use of the 3 D world part of the newer learning model.

The day ended with Valedictory session which was presided by Dr. Rathi Balachandran Asst. Director MOFHW GOI. Highlight was opening of E book prepared by students and faculty of LTCN on Nutrition.

Live Streaming:

The conference on the 3 day was shared virtually through Zoom and YouTube live mode. Overall, 1163 participants registered for the conference.

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Feedback:

Feedback of delegates was shared by Ms. Anne Jose alumni of 1990 batch who gave general overall feedback.

Ms. Durga alumni of 2003 gave feedback on all panel discussion topics.

SWOT

Strength:

Blessings of our seniors Madam Prabhakaran, Mrs. Mathew, Mrs. Joykutty, Ms. Molly

Strong support from alumni all over the globe.

All alumni on a common virtual platform.

Technology with LT.

Maharashtra Nursing Council granting credit hours

Weakness:

Face to Face Interaction, warmth missing, Time exceeding on the third day

Opportunities:

Could have gained wider publicity

Threats: Electricity, Bandwidth, Screen sharing fear

Thank you to SNDT Vice Chancellor, MNC Registrar, Alumni, Nursing fraternity around the globe.

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9. National Conference Teachers Education in Context of Implementation of NEP 2020

Report

National Conference
"Teachers Education in Context of Implementation of NEP 2020"
Organised on February 12, 2021

A one-day national level conference on 'Teachers Education in Context of Implementation of NEP 2020' was organised by Shreemati Nathibai Damodar Thackersey Women's University (SNDT Women's University) in collaboration with Vidya Bharati Uccha Shiksha Sansthan on February 12, 2021. The conference was organised in blended mode with physical participation as well as online participation of the esteemed invited speakers and participants.

The conference started with the welcome and lighting of the lamp by the chief guest, Prof. Narendrakumar Taneja; Honorable Madam Vice Chancellor, Prof. Shashikala Wanjari; Conference convener Dr. Ashish Panat; Guest of Honour, Dr. Ashish Puranik; and Incharge registrar, SNDT Women's University Dr. Meena Kute. Conference convener Dr. Panat gave a brief introduction to the conference and highlighted the objectives of the conference. In addition, he thanked Vidya Bharati Uccha Shiksha Sansthan, Indore for the collaboration in the conference which was organised in the physical mode. He also felicitated the esteemed dignitaries on the dais.

Honorable Madam Vice Chancellor Prof. Shashikala Wanjari
welcoming and felicitating Chief Guest Prof. Narendrakumar Taneja

Dr. Panat , conference convener welcoming
Honorable Madam Vice Chancellor Prof. Shashikala
Wanjari

The guest of honour, Dr. Ashish Puranik (State coordinator, Vidya Bharati Uccha Shiksha Sansthan) introduced the organisation 'Vidya Bharati Uccha Shiksha Sansthan' as the largest NGO in the field of education which was established in 1952 with just a shishu vatika. He communicated that the objective of Vidya Bharati Uccha Shiksha Sansthan is to provide educational services to the deprived sections of the society. The motto of Vidya Bharati Uccha Shiksha Sansthan is education through citizen involvement, he said. They aim at networking with various educational institutions for creating and sharing knowledge.

The chief guest, Prof. Narendrakumar Taneja (Honorable Vice Chancellor, Chaudhary Charan Singh University, Meerut and President of Vidya Bharati Uccha Shiksha Sansthan) delivered his address and guided the participants about the role of teachers and teacher education institutes in nation building. According to him, teacher education has to have a comprehensive perspective that will help a person understand 'who I am, where am I going, and where I have to be?'. Education, Prof. Taneja said, leads to unification of cultural identify and building a sense of patriotism. Education prepares a person for the four purusharth - Dharma, Arth, Kaam, and Moksha. Commenting about the importance of NEP 2020, he listed the weaknesses in teacher education programmes as identified by NEP 2020, and indicated that multi-faculty interaction with teacher trainees will enhance the quality of the student teachers.
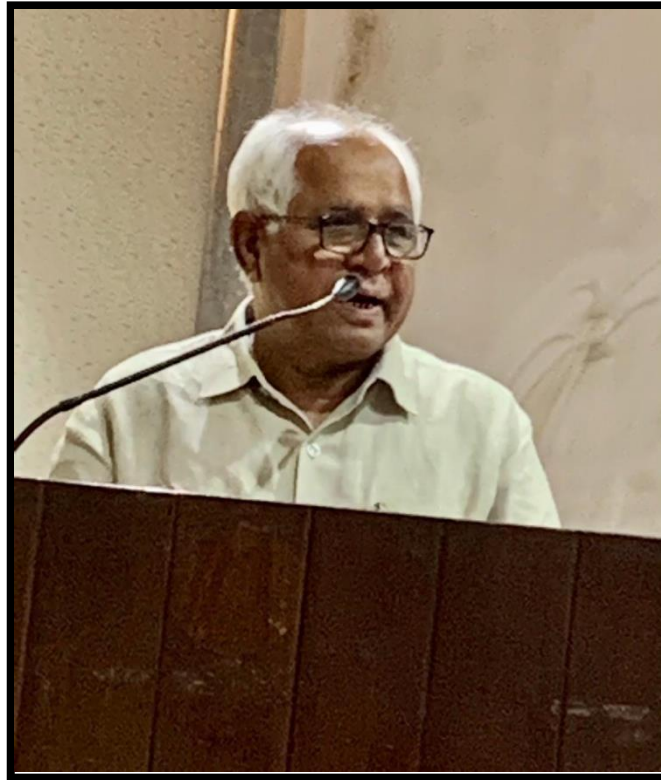
Chief Guest Prof. Narendrakumar Taneja delivering the address

Prof. Shashikala Wanjari, in her presidential address, drew upon the teaching of Bhagini Nivedita. Prof. Wanjari, reiterated that the four purusharth can influence teacher education. She highlighted the role and importance of contextual competency along with conceptual competency in achieving learning outcomes. Madam emphasized that the teachers have the prime responsibility of imparting school education and they can do this well through quality teacher education programmes. As she concluded her address, she thanked the chief guest, Prof. Taneja for accepting the invitation to the conference dais.

Presidential address by Honorable Madam Vice Chancellor Prof. Shashikala Wanjari

The inaugural programme of the conference came to a closure with Dr. Meena Kute, In-charge Registrar, SNDT Women's University and Principal of PVDT college of education proposing a vote of thanks

The participants and dignitaries then attended the key-note address. The key-note address was delivered by Prof. Panchanatham, Hon. Vice-chancellor, University of Teacher Education, Chennai in the online mode. In his address he emphasized that in education 'Quality Matters' and if we in India are able to provide quality education to all, we can shine in all areas. Indicating that the purpose of education is 'to create a person' where the head, heart and hand are all connected. This can be achieved by quality education being imparted by teachers. Prof. Panchanatham articulated the need for integrated teacher education programmes for human resource development. Underlining the importance of introspection and experiential learning, he put forth the view that Innovative pedagogical approaches need to be encouraged, and information and resources need to be translated in local languages. The role of multi-faculty institutes and continuous professional development programmes in enhancing quality of teachers was reiterated.

Key note address by Prof. N. Panchanatham , Honorable Vice Chancellor, Tamil Nadu Teacher Education University, Chennai

Dignitaries and participants attending the key note address by Prof. N. Panchanatham

The parallel paper presentation sessions followed the key-note address. A total of 22 participants presented the papers. Eleven papers were presented in the online mode and 10 in person. The papers that were presented dwelled and deliberated on the themes of value education, competency building, restructuring of teacher education programmes, and challenges in teacher education in the context of NEP 2020. The conference witnessed a participation from Mumbai, different parts of Maharashtra as well as India.

In the valedictory function of the conference began by introducing and felicitating the dignitary on the dais- Prof. V.N. Magare, Pro Vice Chancellor, SNDT Women's University. Dr. Ashish Panat, the conference convener read out the report of the proceeding of the day. Hereafter, the participants gave feedback about their experience and learnings from the conference. They thanked the university for having organised the conference and giving them an opportunity to listen to the esteemed knowledgeable speakers. Prof. Magare, then addressed the participants in his presidential speech and placed the responsibility of quality education as conceptualised by NEP 2020 on the shoulders of teacher education institutes. Dr. Madhavi Dharankar (Asso. Professor, Department of Educational Technology, SNDT Women's University) thanked every person and organisation that has contributed to the success of the conference.

The one-day national conference concluded by the dignitaries and participants singing the national anthem.

DOEE (D) : 2661 5159
Dy. Register : 2661 1524
Dy. Register 1 : 2661 5168
Asst. Register : 2661 5138
B.Ed, H.Sc, Nsg. DMLT : 2660 3322
B.A., B.Com., M.A., M.Com, Law : 2661 1595
Accounts : 2660 8374
Degree, Migm, Certi. : 2661 2877
M.Phil. Ph.D : 2660 3259
Confidential : 2661 2265
Tech.,Pharma., BCA,BMS : 2661 5985
CFC : 2660 8304

SHREEMATI NATHIBAI DAMODAR THACKERSEY
WOMEN'S UNIVERSITY

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Ref.No.:Exam./IQAC/Asked-Que./2022-23/80   Date:13.05.2022

To,
The IQAC Team,
SNDT Women's University,
Churchgate,
Mumbai – 400 020.

Sub.: Documents required for NAAC AQAR 2020-21.

Respected Sir / Madam,

This is with reference to your mail dated on 11/5/2022 would like to report for the year
2020-2021 and inform to you which is as follows:

1. **MCQs USING BLOOM'S TAXONOMY :**

   The report is attached herewith, along with documents.

2. **MINUTES OF THE EXAMINATION GRIEVANCE CELL / RELEVANT BODY :**

   Due to Online examination's in 2020-2021 and also due to pandemic Covid -19
   lockdown hence there was no report to the grievance cell.

3. **CERTIFIED COPIES AS PROOF OF THE DATA SHEETS:**

   The detail report is attached herewith and which is already sent to the IQAC TEAM.

3.a:**ANNUAL REPORT OF DIRECTOR (ADDL CHARGE), BOARD OF
   EXAMINATIONS AND EVALUTION HIGHLIGHTING THE PASS PERCENTAGE
   OF STUDENTS DURING THE YEAR:**

   The detail report is attached herewith and which is already sent to the IQAC TEAM.

3.b:**CERTIFIED REPORT FROM THE DIRECTOR OF BOARD OF EXAMINATIONS
   AND EVALUATION INDICATING THE PASS PERCENTAGE OF STUDENTS OF
   THE FINAL YEAD (FINAL SEMESTER) ELIGIBLE FOR THE DEGREE
   PROGRAMME WISE DURING A YEAR :**

   The detail report is attached herewith and which is already sent to the IQAC TEAM.

3.c:**REPORTS FROM THE DIRECTOR OF EXAMINATIONS AND EVALUATION
   MENTIONING THE NAME OF THE PROGRAM, END DATE OF THE
   EXAMINATION AND DATE OF ANNOUNCEMENT OF THE RESULTS LONG WITH
   THE NUMBER OF DAYS ELAPSED IN BETWEEN, FOR ALL THE PROGRAMS
   FOR A YEAR DULY SIGNED BY THE DIRECTOR (ADDL CHARGE), BOARD OF
   EXAMINATIONS AND EVALUATION :**

   The detail report is attached herewith and which is already sent to the IQAC TEAM.

Thanking you,

                                        Yours faithfully 13/5/2022

                                        (Dr. Sanjay Shedmake)
                                        Director (Addl. Charge),
                                        Board of Examinations and Evaluation

Encl.: As above.
c.c.: 1. The Pro-Vice-Chancellor. 2.The NAAC Criterion2 Team.

Student Learning Outcomes

To understand how we might be impacting student learning we must first define our student learning outcomes and then measure if the program or service implemented to facilitate such learning was effective. *Learning Outcomes* are goals that describe how a student will be different because of a learning experience. More specifically, learning outcomes are the knowledge, skills, attitudes, and habits of mind that students take with them from a learning experience.

How do I go about writing a learning outcome?
It may be difficult to know where to start in writing a student learning outcome. Here are some questions that might help you brainstorm a list of outcomes.
1. What do you want the student to be able to do?

2. What knowledge, skill or abilities should students demonstrate?

3. How will students be able to demonstrate what they learned?

4. How does your curriculum (program/course) and outcome fit with each other?

The focus should be on what a student will be able to do after completing curriculum or after having learning experience.

Structuring an Outcome Statement
Once you have identified the intended outcomes, you will want to write a formal learning outcome statement. The key is to make sure the statement is S.M.A.R.T.
Specific-Outcome is focused on a specific category of student learning. If it is too broad, it will be difficult to measure.
Measureable- Data can be collected to measure student learning.
Attainable- The outcome is attainable given the educational experience.
Results-Focused- The program outcome is aligned with Student Learning Outcomes.
Tailored- Outcome is specifically tailored to the program.

Bloom's Taxonomy

Bloom's Taxonomy:

Although named after Bloom, the publication of *Taxonomy of Educational Objectives* followed a series of conferences from 1949 to 1953, which were designed to improve communication between educators on the design of curricula and examinations.

The first volume of the taxonomy, *Handbook I: Cognitive* was published in 1956, and in 1964 *Handbook II: Affective*. A revised version of the taxonomy for the cognitive domain was created in 2001.

Bloom's revised Taxonomy of Learning Domains

Bloom's Taxonomy was created in 1956 under the leadership of educational psychologist Dr Benjamin Bloom in order to promote higher forms of thinking in education, such as analyzing and evaluating concepts, processes, procedures, and principles, rather than just remembering facts (rote learning). It is most often used when designing educational, training, and learning processes.

The Three Domains of Learning

The committee identified three *domains* of educational activities or <u>learning</u>:

Cognitive: mental skills (*knowledge*)

Affective: growth in feelings or emotional areas (*attitude or self*)

Psychomotor: manual or physical skills (*skills*)

Domains may be thought of as categories. Instructional designers, trainers, and educators often refer to these three categories as KSA (<u>Knowledge</u> [cognitive], <u>Skills</u> [psychomotor], and <u>Attitudes</u> [affective]). This taxonomy of learning behaviours may be thought of as "the goals of the learning process." That is, after a learning episode, the learner should have acquired new skill, knowledge, and/or attitude.

While the committee produced an elaborate compilation for the cognitive and affective domains, they omitted the psychomotor domain, however, there have been psychomotor models created by other researchers.

Bloom's Revised Taxonomy

The cognitive domain involves knowledge and the development of intellectual skills (Bloom, 1956). This includes the recall or recognition of specific facts, procedural patterns, and concepts that serve in the development of intellectual abilities and skills. There are six major categories of cognitive processes, starting from the simplest to the most complex. Lorin Anderson, a former student of Bloom, and David Krathwohl revisited the cognitive domain in the mid-nineties and made some changes.

- changing the names in the six categories from noun to verb forms
- rearranging them as shown in the chart below
- creating a processes and levels of knowledge matrix

The chart shown below compares the original taxonomy with the revised one:
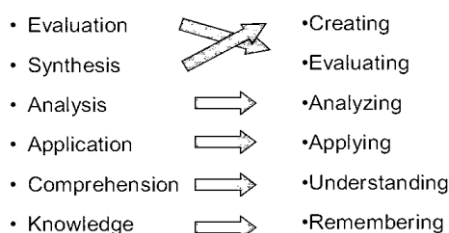
The new taxonomy reflects a more active form of thinking and is perhaps more accurate.

1. Remembering: Retrieving, recalling, or recognizing knowledge from memory. Remembering is when memory is used to produce definitions, facts, or lists, or recite or retrieve material.

know	define	record
identify	recall	name
relate	memorize	recognize
list	repeat	acquire

2. Understanding: Constructing meaning from different types of functions be they written or graphic messages activities like i**nterpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining.**

restate	identify	illustrate
locate	discuss	interpret
report	describe	draw
recognize	review	represent
explain	infer	differentiate
express	conclude	

3. Applying: Carrying out or using a procedure through **executing, or implementing**. Applying related and refers to situations where learned material is used through products like models, presentations, interviews or simulations.

apply	organize	practice
relate	employ	calculate
develop	restructure	show
translate	interpret	exhibit
use	demonstrate	dramatize
operate	illustrate	

4. Analyzing: Breaking material or concepts into parts, determining how the parts relate or interrelate to one another or to an overall structure or purpose. Mental actions included in this function are **differentiating, organizing, and attributing**, as well as **being able to distinguish between** the components or parts. When one is analyzing he/she can illustrate this mental function by creating spreadsheets, surveys, charts, or diagrams, or graphic representations.

analyze	differentiat	experiment
compare	e	scrutinize
probe	contrast	discover
inquire	investigate	inspect
examine	detect	dissect
contrast	survey	discriminate
categorize	classify	separate
	deduce	

5.   Evaluating: Making judgments based on criteria and standards through **checking and critiquing**. Critiques, recommendations, and reports are some of the products that can be created to demonstrate the processes of evaluation. In the newer taxonomy evaluation comes before creating as it is often a necessary part of the precursory behavior before creating something.

judge	argue	validate
assess	decide	consider
compare	choose	appraise
evaluate	rate	value
conclude	select	criticize
measure	estimate	infer
deduce		

 6. Creating: Putting elements together to form a coherent or functional whole; **reorganizing** elements into a new pattern or structure through **generating, planning, or producing**. Creating requires users to put parts together in a new way or synthesize parts into something new and different a new form or product. This process is the most difficult mental function in the new taxonomy.

compose	plan	propose
produce	invent	develop
design	formulate	arrange
assemble	collect	construct
create	set up	organize
prepare	generalize	originate
predict	document	derive
modify	combine	write
tell	relate	propose

Guideline for writing learning outcomes:

As a result of participating in (program or experience), students should be able to (action verb) + (defined by explicit and observable terms).

Writing better multiple- choice questions

Some basic rules: -

Rule #1: Test comprehension and critical thinking, not just recall

Multiple choice questions are criticized for testing the superficial recall of knowledge. You can go beyond this by asking learners to interpret facts, evaluate situations, explain cause and effect, make inferences, and predict results.

Rule #2: Use simple sentence structure and precise wording

Write test questions in a simple structure that is easy to understand. And try to be as accurate as possible in your word choices.

Rule #3: Place most of the words in the question stem

If you're using a question stem, rather than an entire question, ensure that most of the words are in the stem. This way, the answer options can be short, making them less confusing and more legible.

Rule #4: Make all distractors plausible

All of the wrong answer choices should be completely reasonable. This can be very hard to accomplish, but avoid throwing in those give-away distractors as it detracts from the test's validity.

Rule #5: Keep all answer choices the same length

Expert test-takers can use answer length as a hint to the correct answer. Often the longest answer is the correct one. So, try to keep the length of all options same.

Rule #6: Mix up the order of the correct answers

Make sure that most of your correct answers aren't in the "b" and "c" positions, which can often happen. Keep correct answers in random positions and don't let them fall into a pattern that can be detected.

Rule #7: Keep the number of options consistent

Making the number of options consistent from question to question helps learners know what to expect.

Rule #8: Use 'All of the Above' and 'None of the Above' with caution

When you run out of distracters, 'All of the Above' and 'None of the Above' can come in handy. But they may not promote good instruction. All of the Above can be an obvious give-away answer when it's not used consistently. Also, the All of the Above option can encourage guessing if the learner thinks one or two answers are correct. In addition, the downside to None of the Above is that you can't tell if the learner really knew the correct answer.

Validity of the test:

"ARE YOU MEASURING WHAT YOU THINK YOU'RE MEASURING?"

You want the test to accurately assess knowledge and skills. Hence, the questions must correspond to the most important learning objectives or actions. One way to achieve greater validity is to test the most important content. Here's a reasonably quick way to go about it.

1.   Review the course goal so you can keep it in mind.
2.   Create a matrix in order to determine the value of each learning objective or action.
3.   Score each objective in terms of its importance to the learner's job, its difficulty and the frequency in which it occurs in the course.

Reliability Is Consistency

A test that is reliable or consistent has few variations within itself and produces similar results over time. This is often compared to a scale. If you weigh yourself every day and your weight is reasonably consistent, you consider the scale reliable. If the scale displays wildly different weights from day to day (even during the holidays), you would not consider it a reliable measure.

A test that is reliable will have a degree of consistency evidenced by these characteristics:

•   The test items seem similar or highly related. The test comes together as one whole.
•   There are no great leaps in difficulty, wording and tone. It might seem like one person wrote the entire test.
•   If the test were administered to similar groups, you would see similarities in the scores across the groups.

How to Improve A Test's Reliability?

•   Avoid creating one test for several different courses.
•   Add more questions to the test. A longer test is going to be more reliable.
•   Word test questions and instructions very clearly so that no other interpretations are possible.
•   Make sure the answer choices are clearly different from each other and that distractors (wrong answers) are 100% wrong.
•   Create test items of similar difficulty, when possible.

11. Participation in NIRF

http://www.sndt.ac.in/nirf