

Shri Manibhai Virani and Smt. Navalben Virani Science College (Autonomous),

Affiliated to Saurashtra University, Rajkot

Date: 26/09/2020

Time 4:00 pm

Venue: Online

BOARD OF STUDIES – Chemistry

AGENDA:

1. Welcome and introductory remarks by Chairman
2. ATR of the recommendations / resolutions made in previous BoS meeting.
3. Online TL & E methodologies/ strategies adopted for A.Y. 2019-20 & 2020-21 as per UGC, Government and University preventive guidelines for Covid-19 pandemic.
4. Adoption and implementation of UGC – Learning Outcomes based Curriculum Framework (LOCF) for Undergraduate Education from A.Y. 2021-22 in harmony with National Education Policy-2020.
5. Updation of List of Question Paper Setters and Examiners-Theory & Practical for UG and PG Programs.
6. Any other

NOTES:

1. Welcome and introductory remarks by Chairman

Welcome to all the members of the Board of Studies to the first meeting after conferment of extension of the autonomous status (up to 2023-24) to the college by UGC.

I, as Chairperson of the BoS place on record the gratitude of the department to the previous members of this BoS for their kind and able contribution towards the effective implementation of academic autonomy.

Due to C-19 pandemic first national lockdown was observed on 22nd March 2020 followed by Phase-1 to till date; following activities have been carried out by the college.

- Three Blood donation camps for the benefit of thalassemia patients (104-units) were organized in association with Red Cross Blood Bank, Atmiya University and Saurashtra University during April-2020.
- Following events were organized in association with Atmiya University, Rajkot.

Event	Topic	Date	Resource Person
OBE – FDP (02)	Rubrics as an Assessment Tool - Part I	28-04-20	Prof. Sheela Ramachandran Pro-Chancellor, Atmiya Uni., Rajkot
	Rubrics as an Assessment Tool - Part II	06-05-20	
Webinar (05)	Development of Testing-Kits & Global Diagnostics Methodologies for COVID-19	23-05-20	Dr. Vraj Rabadia, Head, Non-Clinical Discovery, ApoPharma Inc, Apotex, Toronto, Canada
	Technologically Important Materials	17-06-20	Prof. S. Kalainathan, Director, Centre for Crystal Growth, VIT, Vellore, TN
	Understanding Innate Immunity in CANCER	18-06-20	Dr. Riva Verma, Cancer Immunology, Uni. of Singapore
	Electronic Materials & Devices for Select Space & Defense Applications - An Overview	19-06-20	Prof. V. N. Mani, Sr. Scientist-E, Centre of Materials for Elec. Tech., IT Dept., Govt. of India, Hyderabad
	Relevance of X-Rays : A WONDER RADIATION (For Men and Materials)	20-06-20	Prof. Rajni Kant, Dean-Faculty of Science, CoE, Uni. of Jammu, Jammu Tawi
E-Content FDP (01)	E-content development: Video Recording & Editing	9 th & 10 th June 2020	ICT experts of the college and Atmiya University.
MS Teams-FDP (02)	Online Teaching using MS-Teams	17 th to 20 th June 2020	KCG and Microsoft Trainers (for 1. Principal + ETRP 2. All teaching staff)
NEP-FDP (01)	National Education Policy 2020 - Overview	23-09-20	Dr. Y. M. Jayaraj, Hon. VC, Pravara Institute of Medical Sciences, Loni Bk, MH

- Following student centric co/extra-curricular activities were organized.

Day	Competition	Date	Remark
Gujarat Establishment	Essay, Painting and Poem	01-05-20	Saptadhara Competitions
World Environment	Quiz	05-06-20	In association with Gujarat Pollution Control Board, Rajkot
International Yoga	Quiz	21-06-20	In association with Gujarat State Yoga Board, Gandhinagar
World Photography	Photography	24-08-20	In association Atmiya University, Rajkot
Independence Day	Total 18 NCC cadets, 08 NSS volunteers and NCC officer of the college have served Rajkot district administration for C-19 preventive measures for two months April & May 2020 and they were felicitated for exhibiting extra ordinary courage as Corona warriors.		

MOOCs/ Refresher courses:

- Faculties from Department has earned 185+ certificate in COURSERA (American MOOC provider) in association with Atmiya University during the C-19 pandemic.
- Students from Department (Atmiya/VSC) have got more than 225+ NPTEL (UGC SWAYAM) certificate with credits
- Three faculties have been recognized as NPTEL courses translator.
- 95+ Faculty & Student have been selected in CSIR-SRTP-2020.
- 10 faculties from department successfully completed refresher course from ARPIT (UGC SWAYAM)
- 4 research scholar/ faculties have been completed UGC-STRIDE refresher course.

2. ATR of the recommendations / resolutions made in previous BoS meeting.

Following recommendations / resolutions were made in the previous BoS meeting held on 5th June 2019.

- Revised and framed the Scheme of instructions & examinations and Syllabi of all courses for B.Sc. Chemistry program, Semester I to VI (Core, DSE-Core, Allied, Elective)
- Revised and framed the conceptual framework, Scheme of instructions & examination and Syllabi of all, courses for M.Sc. Chemistry program, Semester I to IV (Core, DSE-Core, DSE-ID and other Courses Unique to the Department) under OBE
- Framed the Syllabi and Evaluation Norms for Part-III Courses.
- Revised the Syllabi and Evaluation norms for GE and VAC courses of UG & PG.
- Finalized the Question Paper Pattern for UG and PG (OBE) programs.
- Updation of List of Question Paper Setters and Examiners-Theory & Practical

In last BoS, **Members** were suggested following suggestion:

The chairman Dr. K. D. Ladva, brief about Learning Outcome based Curriculum Framework (LOCF) suggested by UGC Chairman Prof. D. P. Singh. Dr. A. H. Bapodra and Dr. Naval Kapuriya appreciated the **adoption and Implementation of OBE in PG Programs.**

Dr. Naval Kapuriya and Dr. Ajay Pandya suggested the department to decide % wise allotment between Dissertation, Project, and Internship.

Department decided to offer Intake ratio of dissertation is 20 % for both organic and analytical with ± 5 %).

During the discussion about GE course for PG students, Dr. Atul Bapodra suggested to include introductory NMR in the paper. Dr. Ladva suggested to check the possibility of offering exclusive paper on either Chromatography or Org. Spectroscopy.

Department finalize molecular spectroscopy paper as a GE

3. Online TL & E methodologies/ strategies adopted for A.Y. 2019-20 & 2020-21 as per UGC, Government and University preventive guidelines for Covid-19 pandemic.

A.Y. 2019-20

As per the academic calendar A.Y. 2019-20 of the college, the teaching & learning process of all UG, PG & Integrated programs have ended on/before 9th March 2020; the 2nd internal evaluation (i.e. 2nd CIE) was scheduled from 23rd March 2020 and subsequently Semester End Examination (theory) – 2019-20 for all UG, PG & Integrated programs were scheduled from 1st April 2020 & onwards. The SEE (practical) have commenced from 11th March 2020.

Due to Covid-19 pandemic; first National lockdown was observed on 22nd March 2020 followed by Phase-I to till date and as per the approval of the Governing Body of the college (GB in C dated 21/07/2020) based on various circulars / C-19 preventive guidelines of UGC, Education Department and affiliating University; the internal & semester end evaluations – T & P were conducted giving proctored online / offline options to the students in two phases. The internal test was conducted during April / May 2020 and semester end examinations during July / August 2020 for even semesters of following programs.

- B.Sc. Chemistry
- B. Voc (CT/PAQA)
- 5-years Int. B.Sc.- M.Sc. Chemistry
- M.Sc. Chemistry (Organic/Analytical)

The online remedial coaching classes were conducted from 2nd week of June 2020 and before Semester End Examination for the above programs.

A.Y. 2020-21

The college has initiated online / offline admission processes on 15th May 2020 as per admission / admission processing committee's resolution the merit list schedule was published on college website on 6th June 2020. The admission counseling was made online as well as at college following the guidelines issued by the Government.

The Department of Education, Government of Gujarat has implemented UDAYAM-Unlimited Digital Advanced Yearlong Academic Method of Learning project for providing Administrative and Academic resources to the HEIs during C-19 pandemic (Education Department, GoG, Circular No. PaRaCh/2020/OnlineEdu/Kh dated 22/06/2020).

The Department of Education, Government of Gujarat has facilitated all the GIA Colleges with Single sign on system-COGENT and Microsoft Teams platform for online Teaching Learning & Evaluation-TLE. The KCG and MS Teams trainers have conducted online two trainings for Principal, ETRP and all staff members. The Government has also established cluster lead college for the rectification of relevant issues and queries.

The Sarvodaya Kelavani Samaj, managing trust of the college have also facilitated with all digital and physical resources required for the conduction of SIP & TLE during Covid-19 pandemic. The college has conducted two days FDP on E-content development: Video Recording & Editing on 9th & 10th June 2020.

The online teaching-learning classes started with Student Induction Program (SIP) for Semester-3 & 5 of UG programs and Semester-3 for PG program in phased manner from 9th July 2020 & onwards for A.Y. 2020-21.

The online Student Induction Program (SIP) followed by teaching, learning & evaluation has started from 25th August 2020 for UG semester-1 students admitted in 2020-21 as per academic calendar. During five days SIP, thrust was given on Life Skills (VECD), Basic Computer Skill, E-learning Resources and Communication Skills.

As per the academic calendar of the college the first CIA: Component Test-1 for the UG / PG students of semester-3 and 5 of following programs are from 21st to 25th Sept. 2020.

- B.Sc. Chemistry (Semester-3 & 5)
- M.Sc. Chemistry (Semester-3)

4. Adoption and implementation of UGC – Learning Outcomes based Curriculum Framework (LOCF) for Undergraduate Education from A.Y. 2021-22 in harmony with National Education Policy-2020.

The Learning Outcomes-based Curriculum Framework (LOCF) works towards a more holistic experience for the students, while focusing not just on knowledge delivery in higher education but also on the application of knowledge through field and lab work and emphasizes on application of knowledge to real life experiences. Besides this, students will attain various 21st century skills like critical thinking, problem solving, analytic reasoning, cognitive skills, self-directed learning etc.

The LOCF is a framework based on the expected learning outcomes and academic standards that are expected to be attained by graduates of a program of study and holder of a qualification.

The college has already implemented Outcome based Education System for M.Sc. programs from 2019-20 & onwards. The college will come up with the key outcomes that underpin curriculum planning and development at the UG level include Graduate Attributes, Qualification Descriptors, Program Learning Outcomes, and Course Learning Outcomes and Teaching - learning process & Assessment methods for the students admitted in various UG programs from AY 2021-22.

5. Updation of List of Question Paper Setters and Examiners-Theory & Practical for UG and PG Programs.
6. Any other