



Supporting Document 6.5.2

Department of English

"Persevere -Excel- Promote - Quality" is the motto of the Department of English since 195. Fostering better Communication of Ideas through Speech and Writing is the aim and objective of the department. The highlights of the academic year 2020 -21 are as follows:

- Literary Competition - Annual Literary competitions were organised in the month of December 2020 in which various events like debate, speech, extempore, essay, were conducted.
- Guest Lectures - To provide exposure and better understanding regular teaching is supplemented with guest lectures by eminent speakers for both the PG and UG students. Due to this pandemic Alumna guest lecture on "The Importance of Non-Verbal Communication in Our Day-to-Day Life" was delivered by Ms. Neha Mahawar. Mrs. California, USA delivered a lecture on "Communication" through Virtual platform.
- Newsletters - 'The Aloysian Times', the departmental newsletters were released in three volumes in September 2020, November 2020 and January 2021, respectively.
- Confluence - International Student Faculty Exchange Programme from 21-25 September 2020 was organised. Dr. Mary Raymer was teacher coordinator of the confluence from the College. It comprised classes, case studies, role play and cultural programme.
- "World Day of Social Justice" was organised as a virtual programme on 20 February 2021. Undergraduate and Post Graduate students participated with high enthusiasm. Slogan Writing competition and Enactment on this topic were performed by the students of the department.
- A significant achievement of the department was that Ms. Vaishnavi Singh Kansana of English Literature (B.A.III Year) participated and was awarded the Best Speaker in Inter College National Level Debate Competition on "The Chicken or The Egg: Women's Economic Advancement Vs Social Inclusion" organised by U.S. Consulate, Mumbai, on 25 March 2021.
- Certificate Course - To impart extra skills to the students, the department conducted a certificate course on "Proficiency in English". Fifty-seven students participated and benefitted from the certificate course. The Department also conducted "French Course" to groom the students skilled with Foreign Language. Thirty-seven Students benefitted the learning of a foreign language.
- Language Lab - Spoken English and Functional English Practical have been conducted virtually on a regular basis throughout the academic session. Online Spoken English Course was also conducted by the Department.

- Research, Publication and Consultancy: Departmental members are actively engaged in research and publication. Dr. Neelanjana Pathak was invited as a resource person in International E-Symposium on "Disaster and Literature". Dr. Mary Raymer delivered an invited talk on "Anger Management" and "Make a Bond with Ruskin Bond-Through his Short Stories". Dr. Neelanjana Pathak visited Govt. P.G. College, Ghansaur and Nachiketa College as a member of UGC Paramarsh Dr. Neelanjana Pathak published reviews (research paper) in International (Peer Reviewed) Journal. All the members attended various International and National webinars and Faculty Development Programmes as well. The departmental faculty published four research papers in various national and international referred journals.

Department of Hindi

The department was established in 1951 and its motto is Hindi ka Samyak Gyan Evam Shodhke Navya Prayog. Apart from the Syllabus, the students are also taught how to write and speak through elocution and essay competitions. The students are also given a chance to develop their personalities through participation in road shows and theatre activities. Following are the highlights of the Academic year 2020-2021.

- Hindi Sahitya Sabha organised celebration of "Vishwa Hindi Diwas" on 10 January 2021. From 11 to 16 January 2021, Hindi Sahitya Sabha, celebrated Hindi Saphah In this following competition were held- essay competition, slogan competition, extempore competition, short story competition and kavya path competition. In which Yakshika Agrawal, B.Com. III Year, Amanat Samuel Mishra, B.Sc. I Year, Vanshika Jain, B.Com. I Year, Yakshika Agrawal, B.Com. III Year and Rupanshi Mishra B.A. III Year stood 1st respectively.
- Student Editors Selection-The department organised the selection of the editors for the Pratibha magazine in which Sameeksha Tiwari and Janvi Panjwani of B.A. III Year were selected. The department also organised the selection of the editor for the college magazine in which Kapil Dev Gupta of B. A. III Year was selected.
- Ravidas Jayanti - The department organised special lectures on the occasion of Ravidas Jayanti on 19 February 2021. Resource persons were Dr. Kanhaiya Tripathi and Dr. Nanak Chand.
- National Seminar organised - Department of Hindi organised a National Seminar on Indra Bahadur Khare ki Rachnao mein Mulya Bodhon 19 and 20 March 2021.
- National Seminar & FDP – Four members of the department participated in twelve national seminars and one FDP.
- Publication – Three members of the department published papers in five books with ISBN numbers. Also, one member of the department published a book named Vividh Roopa Hindi. Pratibha patrika was published by Hindi Sahitya Sabha.

Department of Political Science

The Department makes all possible efforts in maintaining an inclusive system incorporating the twin goals of democracy and empowerment as well as nurturing young minds to imbibe the values of hard work and self-discipline. The Department takes pride in striking a balance between academic and extra-curricular activities.

- A video presentation on the life of Gandhi Ji prepared and shared with students to celebrate Gandhi Jayanti on 2 October 2020.
- On the occasion of Constitution Day, a talk was arranged on Fundamental Rights and Fundamental Duties, to spread awareness among students about the importance of Constitution in Nation-building on 26 November 2020.
- Essay Competition was conducted and the topic for essay was 'Indo-China Relations'.
- Speech competition was organised to celebrate International Human Rights Day on 10 December 2020.
- "Pravah" Political Science newsletter released on 18 January 2021.
- The Department conducted Certificate Course in Human Rights.
- The Department organised two days online Workshop on Roadmap for Writing Research Paper on 7-8 June 2021. Dr. Arvind Kumar Joshi, Professor, Banaras Hindu University, U.P. was the resource person.
- Dr. Vishwas Patel delivered a lecture on 'Bhartiya Sanvidhan ka Vaishishtya' in Nachiketa College of Computer Science, Commerce and Advance Technology, Jabalpur on 26 November 2020.
- Two articles were published in UGC Care listed Journal 'Manav Adhikar: Nai Dishayein, Rashtriya Manavadhikar Aayog, Bharat.
- Two Chapters published in an edited book 'Health and Hygiene During Covid-19 Pandemic'.
- Three FDPs, two workshops and one International and one National Webinar attended by the faculty of the department.
- Ms. Divyanshi Gupta M.A. IV Semester (Pol.Sc.) presented a research paper in "International Conference on the Changing Dimensions of Human Rights in the Globalised World" organised by Dharmashastra National Law University, Jabalpur on 23-24 January 2021.
- Ms. Pranjali Verulkar M.A. II Semester (Pol.Sc.) secured second position at State Level and Rajul Shrivastav M.A. IV Semester (Pol.Sc.) secured First Position at college level in All India Essay-Writing Event 2020 organised by Shri Ram Chandra Mission in Collaboration with the United Nations Information Centre for India and Bhutan & Heartfulness Education Trust.

Department of History

The department of History conducted online certificate course on "Indian History Chronology from Ancient India to Medieval India", from 20 November 2020 to 22 December 2020.

Dr. Manju Maria Solomon, Head of the Department of History, St. Aloysius' College Jabalpur delivered a guest lecture in Bhopal School of Social Sciences on 28 November 2020

Marching towards "Shaheed Diwas," that is witnessed on 30 January 2021 in the memory and death anniversary of Mahatma Gandhi. The department of History organised Patriotic Solo Song Competition. There were more than twenty students involved in the virtual competition.

Organised a poster making competition on January 28, 2021. The theme for the posters was "Mahatma Gandhi and the Indian National Movement".

The department released its inaugural issue of the six monthly Viraasat newsletter on 16 February 2021.

Under Amrit Mahotsav starting on 12 March 2021, St. Aloysius' (Autonomous) College, Jabalpur organised a conference under the patronage of Principal Dr. Fr. G. Vazhan Arasu. Dr. Manju Maria Solomon, Head of the Department of History coordinated the event and delivered a keynote speech on the significance of Dandi March and the requirement for our youth to embrace patriotism in a constructive manner.

International Women's Day Celebration -The Department of History, organised a speech competition to promote gender sensitization among the students. More than twenty students were in the virtual speech competition wherein Dr. Manju Maria Solomon (Head, Department of history) and Dr. Vishwas Patel (Assistant Professor, Political Science) judged the participants. The topic for the speech was "Role of Educated Youth in Grass root level Gender Sensitization".

Department of Physics

The highlights of the department for the year 2020-21 can be summed up as:

Dr. Nisha Pandey participated and presented a paper in National E Conference on 'Role of Basic Science in Engineering & Technology' held at SIRT, Bhopal on 24 July 2020.

Dr. Poonam Pendke published one research paper in "Deliberation on Advances in Physical, Mathematical and Computational Science" ISBN: 978-93-87899-09-4.

All the faculty members of department attended the online faculty development programme on Teaching, Learning and Evaluation for Alliance with Revised Bloom's Taxonomy from 14 to 18 December 2020, organised by Department of Education.

Students benefitted from a guest lecture on "Particle Accelerator" by Dr. Hitesh Sharma Assistant Professor (Medical Physics), NSCB Medical College, Jabalpur.

- With an aim to promote basic sciences, the UG and PG students of department of Physics conducted 'Science Awareness Programme' on 03 March 2021. On the occasion of National Science Day. Seventeen UG and two PG students designed few experiments to demonstrate some simple phenomenon of Physics. An online quiz was also organised and a thematic interesting drama was played by our UG students. All these events were arranged through virtual mode.

Department of Computer Science

Department of Computer Science has spread wings in area of learning and in its quest for excellence has stood as a torchbearer to society. The department has focused on 'Educating for better tomorrow with Quality through Perseverance' in which the department has taken steps to update the syllabi and giving the best to our learners.

Highlights :-

- The department of Computer Science has conducted number of activities in the academic year 2020-21. To make familiar with the computer skills and to bridge the gap, department conducted bridge classes for two weeks for the students of first year BCA, BSc(CS), BCom (CA), BA(CA), BSc(CA).
- The department conducted a one - day seminar on "Getting familiar with Google classroom" for the teaching staff of the college on 1 October 2020. The faculties of the department took the responsibility and trained other faculty members for same.
- The department organised certificate course on "Training programme on Python for machine learning" from 26 August 2020 to 17 November 2020. The objective was to provide introduction to machine learning with Python which is a need of an hour as it is widely used in the industry. "Online Certification course on movie making, editing and animation" was organised by department from 18 November to 10 December 2020. The certificate course helped students discover how tools can be used to encourage active learning and enable pupils to establish strong connections with the movie making, editing and animation industry.
- The department continued to conduct Certificate Course titled "Red Hat" certification. The beneficiaries for the course were undergraduate and postgraduate students of the institution.
- Virtual Guest lecture was organised for UG and PG students on "Cyber Security Basics and Information about Virus".
- One day webinar on "Ascend your Learning Curve" was organised by the department in collaboration with Red Hat Academy on 6 November 2020. Resource person for the webinar was Mr. Chandrashekhar Shukla.
- Computer Literacy programme has been conducted by the department in collaboration with Value Added Course from 21 May to 28 May 2021 to serve and explore the basic

knowledge of the computer and of the basic applications to all the non-computer students of the college.

- The department organised a one-day webinar on "Career prospects in Computer Science and Application" on 29 May 2021 to enlighten the students of the department. A total of 457 students benefitted with the webinar.
- Five days online workshop on "Data Science and Machine Learning Concepts" was organised by the department from 1 June 2021 to 5 June 2021 to give hands on skills to the participants. Approximately 350 participants have attended the workshop. Speakers for the workshop Prof. Aprajita Ojha (IIITDM Jabalpur), Dr. Abhishek Shrivastava (IIT Indore), Mr. Tarun Saxena (Data Scientist, Gemini solutions, Gurgaon), Dr. Puneet Gupta (IIT Indore) and Dr. Shraddha Masih (Reader, DAVV, Indore) shared their expertise with the participants.

Department of Mathematics

Realizing that the backbone of success is hard work, determination, good planning, and perseverance, Department of Mathematics, St. Aloysius Autonomous College Jabalpur bred opportunities and gained academic excellence. Some highlights of the department are as follows:

- The department has successfully convened two certificate courses on 'Research Documentation through LaTeX'. One of which was an online certificate course attended by 24 academicians nationally.
- Three national online Mathematical quizzes were also conducted by the department catering to needs of students.
- Department takes pride in affirming that two faculty members Dr. Mandira Kar and Dr. Akhilesh Pathak had been chosen and they provided video (YouTube) lectures for the M.P. PG Higher Education portal.
- Dr. Mandira Kar and Dr. Mita Darbari have delivered invited talks as resource persons in six national webinars and Dr. Akhilesh Pathak has delivered two online guest lectures.
- A book titled 'Advances in Physical, Mathematical and Computational Sciences' was edited by Dr. Mita Darbari and published in the form of a book with ISBN no.
- Dr. Mandira Kar is the recipient of Innovative Researcher and Dedicated Excellent Educationist Award-Mathematics
- Eleven research papers have been published, three in Scopus/UGC/peer reviewed journals and nine as chapters in books with ISBN no.
- Faculty has attended forty-three Webinars and thirty-two Faculty Development Programmes to deliberate on recent trends in mathematics and advanced e-teaching learning techniques.
- National Mathematics Day was celebrated online.
- The Mathematical Society newsletter was released and results of curricula and extra curricula activities steered during the session were declared.

- Having realized all problems contain seeds of opportunity faculty members of the department worked hard during Covid 19 lockdown period and recorded more than 175 video lectures in the college repository for the benefit of students.
- Dr. Archana Pasari was awarded the Doctor of Philosophy in Mathematics degree in April 2021.

Department of Chemistry

Covid -19 has landed us in exceptional situation in the history of education and provided us with opportunities to come out of the rigorous classroom teaching model to a new era of digital model. The massive efforts made in a short time to respond to the shocks to education systems remind us that change is possible. As a department we seized this opportunity and overcame the situation and forged ahead in online teaching, learning, research and co-curricular activities. The different activities of the department for the session 2020-2021 are as follows-

Value Added Courses

- The Department organised a one-week online certificate course entitled "Application of Chemistry in Everyday Life" (30 hours and 02 credits) from 17 to 25 August 2020. The total number of participants benefitted by the course was forty-nine.
- The department conducted a (30 days and 02 credits) certificate course entitled "Chemistry of Food: Analysis and Estimation" from 27 January 2021 to 15 February 2021. Thirty-one students participated in this course

National Webinar Organised:

- The department organised a one-day National webinar on "Career and Job Opportunities in Chemistry" on 13 August 2020. The talk was given by Dr. Raj Kumar Mongre, Principal Research Scientist, Seoul, South Korea. Nearly 200 students had registered for the webinar and were greatly benefitted.
- Faculty Development Programmes - The teachers of the Department regularly participated in various Faculty Development Programmes to continue the process of learning and upgrading their knowledge quotient.
- Four departmental members gave Oral paper presentation in 'International Conference on Current Trend in Chemical and Pharmaceutical Science" (CTCPS-2021) organised by Department of Chemistry, Harisingh Gaur Vishwavidyalaya, Sagar on 20 to 22 January 2020. Dr. Shweta Likhitar and Dr Smarika Lawrance secured the 2nd and 3rd position respectively in the best paper presentation category.
- One member presented a paper in National Conference on "Teacher Education in the 21st Century: Vision and Action" organised by Regional Institute of Education, NCERT, Bhopal dated 8 to 10 March 2021.
- One departmental member participated in one -week online Faculty Development Programme organised by IQAC in collaboration with World Bank Project, Govt. Narmada College, Hoshangabad, M.P. dated 20 to 31 July 2020.

- Five members attended One day Workshop on "Grant Writing under Chemical Science domain" organised by Indian Institute of Science, Bangalore on 11 December 2020.
- Six members attended Faculty Development Programme on "Teaching learning and evaluation for alliance with revised Bloom's Taxonomy" on 14 to 19 December 2020.
- Five members participated in the 5 Days Faculty Development Programme organised by IQAC St. Aloysius College (Autonomous), Jabalpur, M.P on "Professional Ethics and Being a Leader of Excellence" dated 22 to 26 February 2021.
- Two members of the department attended a one -week International Workshop on "How to write a Quality Research Article" jointly organised by Sri Vidya Mandir Arts and Science College, Uthangarai, Christ University, Bengaluru and Jyothi Engineering College, Thrissur from 24 May 2021 to 30 May 2021.

Science Setu Programme:

- The college has signed a MOU with Translational Health Science and Technology Institute (THSTI), Faridabad under whose aegis three Science Setu Programmes were held on 26 February 2021, 16-17 March 2021 and 11 May 2021 respectively where the UG and PG students participated enthusiastically.

Book Chapters Papers Published :

- Five members of the Department published book Chapters in book titled "Health and Hygiene During Covid-19 Pandemic" published by Shree Vinayak Publications, Agra and edited by Dr. Fr. J. G. Vazhan Arasu and Dr. Anajli Dsouza.

Resource person:

- Dr. Anajli Dsouza delivered an invited talk on the topic "Strategies for dealing with challenging behavior of students in the classroom" for International Faculty Development program from 11 to 15 August 2020 organised by Dhruv Academy of Research and Educational Institution.
- Dr. Shweta Likhitkar delivered an invited talk on "Spectrophotometric validation of Beers Lambert Law" and "Study of Jobs method of continuous variation by UV spectrophotometer" organised by Government Arts and Commerce College, Kannod, Dewas on 2-3 February 2021 as a part of Lecture Series for Academic Excellence under the agencies of MPHEQIP/World Bank Project.
- Dr. Manju Gupta delivered an invited talk on the topic "Importance of Moral Values" and "Innovation in Science through Technology" organised by Government College, Chhapara, Seoni, on 10 December 2020 and 2 March 2021.

Review of Research Manuscript

- Dr. Manju Gupta reviewed the research manuscript of Journal of Analytical Methods (Hindawi publication), titled 'Development of a UPLC -MS/MS method for the quantification of VS-5584 and its application in pharmacokinetic studies in rats in November 2020 and the research manuscript of Journal of Food Composition and

- Patent filed-2
- Book Chapter-1
- Continuously attended and presented research papers in online National and International Conferences / FDPs

Resource Person - Faculty members were invited as resource persons in National/International Webinars and Faculty Development Programmes.

PhD. Supervision - One Research Scholar was awarded PhD. degree under the supervision of Dr. Mamta Gokhale. One student has submitted thesis under Dr. Shikha Bansal.

Students Performance

Achievements

- Isha Deshpande (M.Sc. Microbiology) received an amount of rupees 5 lakh for entrepreneurship and startup from INKVV.
- Vaishali Vishwakarma and Ankita Shrivastava of M.Sc. II Semester (Microbiology) were awarded 2nd prize for their research paper presentation in an International Conference on 15-16 May 2021 (The 2nd HeriCure-UKZN : A Hybrid)
- Manashavi Sharnagat (B.Sc. II year, IMB group) won 2nd and 3rd prize respectively in 'Kavya Path' and 'Innovative Idea' during National Science Competition organised by 'DIC', RDVV, Jabalpur on 28 February 2021
- Ayushi Binker of B.Sc. III year completed and cleared IIT JAM for M.Sc.

Activities Organised

- Virtual Plantation Mission - Students of B.Sc. III year in November 2020 planted saplings in their garden or in pots within their houses and shared pictures and videos of the same. Through the online planting project students conveyed message about the importance of plantation for the healthy life in their families and neighbourhood.
- Microbes And Me - It was an online competition for PG (Microbiology) students to click and share photos of any microbe in its natural habitat. Based on the photo they were required to give a PowerPoint Presentation. The objective was to make them aware of the practical knowledge of microbes around them affecting human life.
- E-Freshers Party - Students of M.Sc. IV Semester (Microbiology) organised and online freshers party for M.Sc. I semester on 22 October 2020.
- World Health Day-Students of B.Sc. I year organised a virtual celebration of 'World Health Day' on 7 April 2021 on the theme 'Interrelation of Plants and Human Health'. They share their views through PowerPoint Presentations.
- World Environment Day - UG students organised a slogan competition on 5 June 2021 on the theme 'Our Environment: Love and Care' to convey the message of protecting the environment in the present pandemic situation.

Department of Biotechnology

The department targets at bringing out the best from the students and faculties by organizing various academic and co-curricular activities. The following are the yearly highlights:

- We are proud to share that our current final year students - Ms. Palak Khare, Ms. Apoorva Shrivastava, and Ms. Ayushi Binker successfully cracked IIT JAM examination for Biotechnology.
- On the occasion of National Science Day department organised a guest talk by Dr. Preeti Shahi, Post-Doctoral Research Scientist, Baltimore, USA.
- Ms. Supriya Jain of M.Sc. Biotech cleared CSIR NET 2020 with an outstanding ranking of AIR 64.
- The department successfully completed the certificate course on plant tissue culture with eighteen students participating.
- Ms. Vaishnavi Sharma was awarded the bronze medal in a National Shooting Championship organised by the Olympic Association.
- To celebrate Constitutional day department conducted an awareness quiz competition.
- Mr. Raj Yadav of M.Sc. Biotechnology (2019) cleared PhD entrance titled FRI (Forest Research Institute), Dehradun.
- One of the faculty Mr. Enosh Phillips is being registered by the Springer Editorial Board as the Reviewer for a Springer Nature Journal published from Germany.
- The department developed an innate hand-rub sanitizer that contains the goodness of herbs with natural aroma and skin care.
- Ms. Kashish Aggrawal who has been working on the development of herbal insecticide "lantocide" has received a grant of INR 10,000 for continuing her work.
- Department organised National level Bio Olympiad in which more than 300 participants participated.

Department of Management

We work with the objective of developing the analytical and resulted oriented temper in our learners thereby specifically disseminating academic and applied knowledge in the field of business management.

- This year the department had organised guest lectures on Stock Trading by Prof. Amogh Gothoskar, member of BSC Broker Forum Ltd. Mumbai, as the guest speaker. Taking into consideration the present Pandemic situation on 4 May 2020, a webinar was conducted on Innovation in "Online Examination during Pandemic." A Session on "Introduction of Stock Exchange" was organised on 5 January 2021. In February 2021, three days' workshop was organised on "Technical Analysis of Stock Trading" from 8 -10 February 2021 by an

- A five-day Faculty Development Programme (FDP) on "Teaching, Learning and Evaluation for alliance with Revised Bloom's Taxonomy" was conducted for achieving a purposeful learning environment in the classroom from 14 to 18 December 2020.
- The annual departmental magazine "Pragya" and Newsletter were released on 18 December 2020.
- The departmental social club put earthen water pots at different places of the city through their students on 5 April 2021 for quenching the thirst of birds during the forthcoming summer season.
- Ms. Neha Namdev, the departmental B.Ed. student of 2015-17 batch, was awarded "Late Bhagwati Prasad Memorial Gold Medal" for obtaining the highest marks amongst the passed students of B.Ed. Examination 2017 during 32nd Convocation of Rani Durgavati University, Jabalpur on 6 February 2021.
- Dr. Kiran Mishra, Head of the Department of Education, was nominated as a member in the Board of Studies in Education for 3 years by Rani Durgavati University, Jabalpur.
- Research papers and chapters in books were regularly published by the faculty members in national and international journals and edited books.
- All the faculty members actively participated in online webinars, workshops and FDPs.

Our odyssey to produce excellent and responsible pupil-teachers continues unabated despite a significant challenge from the ongoing COVID pandemic. We are optimistic of introducing new learning techniques and models to imbibe advanced learning skills among our pupil-teachers.

Any other supporting required document

<http://www.rdunibpin.org/site/information/GenericPDFListing.aspx?Doctype=BA8B7280-FCF7-414F-B2A0-FD530EA8285E>



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