

IIS (deemed to be UNIVERSITY)

SFS, GURUKUL MARG, MANSAROVAR, JAIPUR



**CAPACITY BUILDING INITIATIVES
(FACULTY/ STAFF DEVELOPMENT PROGRAMMES)**

Annual Report

(2018-19)

List of Activities organized:

S.No.	Title of the Event	Dates
1.	FDP101x: Foundation Programme in ICT for Education	13 September-18 October 2018
2.	FDP201x: Pedagogy for Online and Blended Teaching - Learning Process	25 October-29 November 2018
3.	Principles and Practices of Effective Student Assessment (For Faculty of Science)	24-25 August, 2018
4.	Principles and Practices of Effective Student Assessment (For faculty of Commerce and Management)	14-15 December, 2018
5.	Public Speaking (Batch I)	16 February 2019
6.	Public Speaking (Batch II)	April 20, 2019
7.	Moodle Learning Management System	15 March 2019
8.	Koha and Library Automation (Batch I)	12 October 2018
9.	Koha and Library Automation (Batch II)	9 March 2019

FDP101x: Foundation Programme in ICT for Education

Duration: 13 September-18 October 2018

IIS (deemed to be University), Jaipur has participated as a remote centre in Faculty Development Programme (FDP) conducted by IIT Bombay in a blended MOOC approach (Duration 13 Sept to 18 Oct 2018). This course was focused on developing awareness about both technology and effective practices of integrating technology in to teaching-learning. The major course objectives were to identify ICT tools for teaching-learning, bring awareness towards ethical practices for use in ICT education and best practices for information dissemination using ICT. The instructors were Prof. Deepak B. Phatak, Dr. Jayakrishnan M, Prof. Prabhakar T V and Dr. Sameer S Sahasrabudhe from IIT Bombay. Total 41 candidates were registered for FDP out of which 38 were faculty members of IIS (deemed to be University), Jaipur. The FDP was divided in to five weeks and participants were graded for knowledge quiz, assimilation quiz, reflection quiz released for each week. Grading was also given for resource creation assignment, lab activities followed by a summative assessment at the end of course. 39 participants enrolled in FDP successfully completed the course.

The key learning's were concept of Learner Centric MOOC model that included incorporation of different pedagogic adaptations like learning dialogues (LeD), learning by doing activity (LbD), reflection stops, learning extension resources, (LxT), learning experience interactions (LxI) and discussion forums in teaching learning. During the course, participants learned the use of WordPress, dropbox, google cloud, screencast etc., to design resources and activities for teaching-learning in their own subjects. They were able to create their own website using WordPress. Screencast was used to prepare teaching material and upload the same on Moodle site. Week-wise course journal was also prepared and uploaded on WordPress site by each participant. The FDP also had AVIEW interaction session for lab assignment which was conducted on Sunday 7 Oct 2018 in the University campus from 9:30- 5:30. In this session, participants were assigned two lab assignments. They also interacted with participants of other remote centres via AVIEW software. The ICT tools learned in this FDP made participants technology friendly so that they can use them in their day-to-day teaching learning activities.



FDP101x: Foundation Programme in ICT for Education

FDP201x: Pedagogy for Online and Blended Teaching - Learning Process

Duration: 25 October-29 November 2018

Course Coordinator & Remote Centre Coordinator	: Dr. Amita Sharma
System Administrator	: Mr. Harvansh Singh,
AVIEW support	: Mr Suresh Nathawat

IIS (deemed to be University), Jaipur has participated as a remote centre in Faculty Development Programme (FDP) conducted by IIT Bombay in a blended MOOC approach (Duration 25 October – 29 November 2018). Online educational methodology and flipped-classrooms with associated pedagogy of active learning has quickly emerged as the mainstay of effective education in this century. This course aimed to provide awareness about **Online/Blended Education in Teaching-Learning Process** in order to make teaching learning more effective and student centric. The speakers were Prof. Deepak B. Phatak, Dr. Jayakrishnan M, Prof. Prabhakar T V, Prof Sridhar Iyar, Prof. Sahana Murthy and Sameer S Sahasrabudhe.

The major course objectives were Designing and Developing a MOOC, Implementing Flipped Classrooms and Pedagogy of Active Learning. During the course, participants learnt the usage of technologies like Moodle, to design materials and activities for teaching-learning in their own fields of expertise. The key learning's were: -

1. LMS: Moodle Tool
2. Pedagogy of Active Learning
 - a. Think-Pair-Share
 - b. Peer Instruction
 - c. Collaborative Problem Solving
3. Flipped Classroom
4. Online Course Design

The FDP was divided into four weeks and participants were graded for knowledge quiz, assimilation quiz, reflection quiz released for each week. Grading was also given for resource creation assignment and lab activities. All the participants were divided into teams for Open

Educational Resource (OER) activity which was peer evaluated. The FDP also had AVIEW interaction sessions for lab assignment. These sessions were conducted on 17-18 November 2018 and 24 – 25 November 2018 in Lab D from 9:30- 5:30. During AVIEW session, participants were assigned two lab assignments. They also interacted with participants other remote centers participants via AVIEW software. In this FDP, 38 candidates were registered out of which 36 completed the course successfully. The skills and pedagogy learned in the FDP 201X will help participants to develop a more effective teaching-learning practice in their class rooms.



FDP201x: Pedagogy for Online and Blended Teaching - Learning Process

Workshop
on
Principles and Practices of Effective Student Assessment
(For the Faculty of Science)

A two-day Workshop on “Principles and Practices of Effective Student Assessment” for the Faculty of Science was organized by Examination Cell, IIS (deemed to be University), Jaipur on 24-25 August, 2018.

The Inaugural ceremony took place in A.V. Hall from 9:30 am to 11:00 am on 24th August, 2018. Dr. Ashok Gupta, Hon’ble Vice Chancellor delivered the inaugural speech and Dr. Raakhi Gupta, Rector and Registrar, IIS (deemed to be University) described the aims and objectives of the Workshop.

Prof. K. Ramnarayan delivered his key note address on the topic “The Vanishing Art of Lecturing”. The session ended with a formal Vote of thanks proposed by Prof. Pradeep Bhatnagar, Dean, Faculty of Science, IIS (deemed to be University), Jaipur.

Session 1: “Gulab and the Jamoon”

The highly interactive session was conducted by Prof. Sudhakar Naik, Director-Manipal Centre for Professional & Personal Development, Manipal Academy of Higher Education. During the session he discussed the importance of Assessment for the Learning process. Participants were introduced to the 3 domains of assessment i.e., **Cognitive, Psychomotor and Affective** corresponding to the Knowledge, Skills and Attitude of students.

Session 2: “OXYGEN, HYDROGEN, HALOGEN, ANDROGEN (Fundamentals of objective assessment)”

Speaking on the occasion, Prof. Dr K Ramnarayan Chairperson, Manipal University Jaipur demonstrated the fundamentals of objective assessment. He explained about the strengths and weaknesses of MCQ as a test format, Guidelines for construction of sound multiple choice questions and common technical flaws to be avoided while designing the questions.

Session 3: “ASSESSMENT FOR LEARNING”

Professor K. Ramnarayan, Chairperson, Manipal University, delivered an interactive lecture on the effectiveness of assessment for learning, which gave an intricate insight on the basics of Formative Assessment and the benefits of the same over Summative Assessment.

Session 4: “DIPSTICKS TO FATHOM STUDENTS UNDERSTANDING”

Prof. Prashanti Eachempati, Adjunct Professor-Manipal University, Jaipur interacted with faculty members on 53 dipsticks which were an integral part of Formatting Assessment strategies. The post lunch session had lots of hands-on activities. An effective illustration of Kahoot App was the highlight of the session.

Session 5: “CHAKSHUMATHI VIDYA”

Day one of the two-day workshop ended with the enlightening words of Prof. Sudhakar, He beautifully portrayed that the approach has to be effective to make the students learn.

Session 6: “Formative Assessment”

Day two of the workshop started with a positive note by Prof. Sudhakar Nayak wherein he emphasized that classroom must be a place where students look forward to come again & again and this is only possible if a teacher maintains his/her grace and trust of students.

Session 7: “OBJECTIVITY IN SUBJECTIVITY (Framing and assessing essay questions)”

The session on framing and assessing essay questions was conducted by Prof. K Ramnarayan. He began the session with a humorous definition of the ‘examination’. He emphasized that ‘The way you learn determines the way you learn’. Then he discussed the problems with essay type questions.

Session 8: “ITEM ANALYSIS (Determining the Effectiveness of MCQs)”

This session was a Post Tea session which was conducted by Prof. Prashanti Eachempati. The objectives of the session were to teach how to calculate the indices of item analysis and to understand their interpretation as well as their analysis.

Session 9: “BEYOND RECALL”

The Session was conducted by Prof. K. Ramnarayan in which he discussed about the awareness and understanding to be kept in mind while setting of a question paper. He explained that multiple choice questions should cover all levels of knowledge domain like recalling, interpretation and problem-solving level.

Session 10: Blueprint for Assessment

Prof. K Ramnarayan, highlighted the effective plan for setting a question paper. He presents the major specifications required to set a good question paper.

Two-day workshop benefited the faculty members in terms of developing the skills for assessing and evaluating the students.





**Workshop on “Principles and Practices of Effective Student Assessment”
for the Faculty of Science**

**Workshop
on
Principles and Practices of Effective Student Assessment
(For the Faculty of Commerce & Management)**

Inaugural Session

The IIS (deemed to be University), Jaipur organized a two- day workshop on “Principles & Practices of Effective Student Assessment” for the Faculty of Commerce and Management on 14-15 December, 2018.

The inaugural session of the two-day workshop was conducted by Dr. Deepika Singh, Head, Department of Tourism Management. The session commenced with a formal welcome of the dignitaries and participants of the workshop. It was followed by Saraswati Vandana and lighting of the lamp by hon’ble Vice –Chancellor, Dr. Ashok Gupta, Registrar, Dr. Raakhi Gupta, Dean, Faculty of Commerce and Management, Prof. M.K. Sharma and resource persons Prof. Ramanarayan, Chairman, Manipal University and Dr. Prashanti Echapati, Associate Professor, Manipal University, Malaysia.

In the welcome note, Hon’ble Vice-Chancellor, Dr. Ashok Gupta welcomed the esteemed resource persons and expressed admiration and gratitude for their gesture of sharing knowledge and experience. The keynote address was delivered by Prof. Ramnarayan, which was on ‘Resurrecting the vanishing art of lecturing’. He classified the different kinds of lecturers, and opined that the ideal lecturer is a ‘Facilitator’, who actually focuses on facilitating learning among the students. In his thought-provoking address, he also discussed about the various myths among teachers associated with lectures. He asked the teachers to PROFESS, BE ORGANISED, AVOID MONOLOGUES if they want to prepare and deliver effective lectures to their students. Prof. Ramnarayan summed up his address with an interesting experiment depicting how a teacher needs to assess the state of the students mind and deliver lecture to a student, accordingly.

Session 1: “HARMONY (Integrating the basic components of the educational process)”

The first session after the tea break was taken by Dr. Prashanti Echapati, Associate Professor, Manipal University, Malaysia on **Harmony** (Integrating the basic components of the educational process).

Dr. Echapati discussed that most of the teachers today focus on **‘HOW TO TEACH’** whereas their focus should be on **‘HOW TO LEARN’**. It is important for a teacher to become conscious that they are giving knowledge to their students. It is only then that students actually receive knowledge which ultimately leads to actual learning in the class.

She also discussed about the essential components of learning where a teacher should set learning objective based on curriculum. A teacher should also work on his/ her method of delivery which can enhance the learning of a student. And lastly, assessment should be based on three levels viz. **knowledge, skill and attitude.**

Session 2: “OXYGEN, HYDROGEN, HALOGEN, ANDROGEN (Fundamentals of objective assessment)”

The session was conducted by Prof. K Ramnarayan, Chairperson-Manipal University, Jaipur & Vice President Faculty Development, Manipal Academy of Higher Education. The session focused on art of composing Objective Type Questions. The popularity of multiple choice questions due to its non biasness, definitive answers and consistent marking was emphasized in the session. Prof Ramnarayan highlighted the effective ways to and commonly made mistakes during the construction of such questions. The structure of an MCQ was also discussed in great detail.

Session 3: “ASSESSMENT *FOR* LEARNING (Introduction to formative assessment)”

This session was conducted by Dr. Prashanti Eachempati. The session focused on the fact that the assessment should be done in a manner which evaluates the learning of the students and not the memory power of the students. The session covered various do’s and dont’s which a teacher should remember while doing the assessment. The resource person focused on the various aspects of formative assessment and acquainted the gathering with different forms of formative assessment techniques.

The session went very well in order to learn the assessment of students’ learning in an effective manner.

Session 4: “DIPSTICKS TO FATHOM STUDENTS’ UNDERSTANDING (Formative assessment strategies)”

The fourth session of the workshop was on “Dipsticks to fathom students’ understanding” (Formative assessment strategies) and was taken by Prof. Prashanti Eachempati. She explained the importance and benefits of using dipsticks in classroom teaching to make the class more interactive. She further conducted some exercises to make the participants (faculty members) understand how to apply appropriate dipstick on the basis of topic to be taught. She explained 44 different dipsticks which can be used in class. She also described the use of various software to make dipsticks more interesting and understandable.

Session 5: “RECOLLECTION (Recapturing the Important Concepts)”

Day 2 started with the recollection of previous day sessions. It was started with an activity; consist of giving an idea or a thought concept pertaining to the day 1. All the participants actively contributed. It was like a dipstick to make a class settle and also to recollect the previous day thoughts.

The session went very well involving all the participants and also gives us the time to settle down without creating any disturbance in the class.

After the recollection Dr. Prashanti continued the next session – “CONGENIAL CLASSROOM CLIMATE” focusing on social climate inside the classroom by creating a room inside the mind of the students to make the class more interesting and participating.

Session 6: “CONGENIAL CLASSROOM CLIMATE (Creating condition conducive to learning)”

Prof. Prashanti started the session with a beautiful song- ‘aa chalke tujhe...’ that made everybody reconnect with her and tune into for the next day.

Prof. Prashanti explained the term “Congenial climate” as gentle, cordial and safe environment that facilitates student’s learning.

The session was divided into three parts comprising of-

1. What not to do?
2. What to do?
3. How to measure?

In the first part of the session, Prof. Prashanti discussed twenty follies and foibles that affect learning environment in the class and hence should be not be practiced. She emphasized the mistakes which teachers generally commit in the classroom thereby creating an unsafe and non congenial climate. Handouts were given to all the participants wherein all the points were covered elaborately along with suitable examples.

In the second session, Prof. Prashanti emphasized on the points that help in creating congenial classroom climate. Seven principles of good practices, RAPPORT (Relationship, Approachability, Patience, Positive Re-enforcement, Open Communication, Respect and Trust) was discussed. This was followed by the discussion on 5 I's of co-operative learning. They are- Interdependence, Interaction, Inter-personal skills, Individual Accountability and Internalization.

In the last part of the session, Prof Prashanti taught the participants certain mathematical calculations for measuring congenial classroom climate. She discussed difficulty index and Discriminating index as the tools for measuring the same. She clarified the concept with an example wherein all the participants did the calculations and interpreted the results.

Session 7: “OBJECTIVITY IN SUBJECTIVITY (Framing and assessing essay questions)”

This session was taken by Dr K Ramnarayan and was titled as “Assay of the Essay”. He highlighted the need and relevance of Essay type questions even though they are criticized for the subjectivity involved. Following three models of Essay type questions were discussed in the session-

1. Extended response essay
2. Restricted response essay
3. Very restricted response essay

To reduce the subjectivity in Essay type questions, Prof Ramnarayan gave the following guidelines-

1. Discussing the marking scheme-For improving the reliability of Essay type questions he gave 4 C's of marking scheme i.e Correct, complete, clean and Creative.
2. Increasing the number of evaluators.

It was an informative session and involved active participation from all the participants

Session 8: “ITEM ANALYSIS (Titrating the quality of MCQs)”

The session was conducted by Dr. Prashanti Eachempati. Prior to setting the paper a checklist should be prepared and after satisfying all the prerequisites, one should proceed to the next step which is administering the question paper. From the declared results a good teacher can analyse the difficulty index and discrimination index for each question. Beforehand, the teacher can check the difficulty level of question paper, differentiation among competent and incompetent students and distracters- non functional, plausible or dummy variables. After the analysis of question paper teacher has to interpret the results and discuss the outcomes amongst peer group. This may help them to give an effective feedback to students too. Item writing flaws include- use of dummy variables, selection of wrong answers, more than one best answer, reframing of stem, etc. Three actions which can be taken after analysis consist of retaining the question, revising or reframing the question or removing the question.

The session went very well in order to learn the assessment of students’ learning in an effective manner.

Session 9: “BEYOND RECALL”

Session’s name was Beyond Recall. The Session was presented by Prof. K. Ramnarayan, Chairperson -Manipal University Jaipur & Vice President-Faculty Development, Manipal Academy of Higher Education. He was discussing about the awareness and understanding when we are going to set a question paper. He talked about learning ladder, which contains five steps – awareness, understanding, trial, acceptance and Practice. He told us about some facts which we keep in our mind before setting a question paper. For example – how to prepare MCQ of higher order, level of difficulty is important but not every time.

He explained us that multiple choice questions should cover all levels of knowledge domain like Recalling, Interpretation and Problem-solving level. He taught us that when we are making MCQ’s, all stress should not be on only Recalling level or Analysis level or Problem-solving level. All faculty members were enriched by the knowledge of this session on Beyond Recall.

Session 10: “BLUEPRINT FOR ASSESSMENT (Setting a Question Paper)”

In this session, Prof. K Ramnarayan provided the faculties with some specific guidelines on how to set up a question paper. For this, the use of a specification table was explained which can be

used to test the balance of different levels of questions i.e., recall, interpretation and problem-solving questions in the entire syllabus. It was a very enriching session and provided a proper guideline for setting up of a balanced question paper.



Workshop on “Principles and Practices of Effective Student Assessment” for the Faculty of Commerce & Management

Mini Workshop

on

Public Speaking

(Batch I)

16 February 2019

A mini workshop on Public Speaking was organized by The IIS University on February 16, 2019 in the Vinayak Hall which was attended by 122 faculty members from various disciplines of the university. The resource person invited for the same was Dr. K. Ramnarayan, Chairperson (Chancellor) of Manipal University, Jaipur, who has been associated with the Manipal group for over four decades for different academic and leadership positions. After the floral welcome and introduction of the speaker, Dr. Ramnarayan began with a detailed discussion on the three stages of preparing for a public speech (preparation, platform performance and excellence) and the postures, gestures, vocabulary selection, language, word accent, intonation etc. to be kept in mind during deliverance of any public speech. Through some handouts on the do's and don'ts of various speeches like welcome speech, introduction of a guest speaker, vote of thanks etc., the speaker emphasized that brevity and listing are two important aspects to be kept in mind while speaking. The detailed explanation of the contents of various speech plans like the explication speech, the descending speech, the non-committal speech etc. will certainly help the participants to prepare for any such public speaking opportunities in future. Towards the close of the session, the speaker highlighted the thirteen commandments that should be followed by the Master of Ceremonies on any occasion of public speech. The workshop ended with a formal vote of thanks to Dr. Ramnarayan.



Mini Workshop on Public Speaking (Batch I)

Mini Workshop

on

Public Speaking

(Batch II)

April 20, 2019

Second batch of mini-workshop on Public Speaking was organized by The IIS (Deemed to be University) on April 20, 2019, in the Vinayak Hall which was attended by 92 faculty members across various disciplines of the university. The resource person invited for the same was Prof. K. Ramnarayan who is presently the Chairperson of Manipal University, Jaipur and Vice -President, Faculty Development, Manipal Academy of Higher Education at Manipal Karnataka. Prof. Ramnarayan has been associated with the Manipal group for over four decades for different academic and leadership positions.

After the formal welcome and introduction by Dr. Radhika Sharma, the resource person of the workshop, Prof. Ramnarayan addressed the participants. He explicitly explained and demonstrated the three pivotal stages that one should consider while preparing a public speech, namely, preparation, platform performance and excellence. He dealt with each aspect in detail with real-life examples.

Prof. K. Ramnarayan explained the do's and don'ts on the various aspects of public speaking like introduction of a speaker, how to welcome and introduce a chief guest in a formal function, essentials of welcome speech and Vote of Thanks. He also gave a sample speech and some speech plans which would help the participants in preparing their speeches. The handouts were provided to all the participants.

Towards the close of the session, Prof. Ramnarayan highlighted the thirteen commandments that should be followed by the Master of Ceremonies on any occasion of public speech. The workshop concluded with a formal vote of thanks to by Dr. Princy Thomas.



Mini Workshop on Public Speaking (Batch II)

Workshop
on
Moodle Learning Management System
15 March 2019

A one day workshop was organized by IIS University, Jaipur, a Remote Centre of IIT Bombay outreach programme, in collaboration with IIT Bombay on the “**Moodle Learning Management System**” under the Train 10,000 Teachers (T10KT) programme, sponsored by the National Mission on Education through ICT (NMEICT), Ministry of Human Resource Development, Government of India to be held on **Friday, 15 March 2019 from 9.30 AM to 6.00 PM**. The workshop was conducted through a blended mode, using both live video conferencing facility (A-VIEW) and Hands-on sessions at the remote centre. **Prof. Kannan Moudgalya was the main coordinator of the workshop. He is the** principal investigator of PMMMNMST and Spoken Tutorial Project. At IIS remote center workshop was coordinated by **Dr Amita Sharma and Mr Harvansh Singh**.

There were 40 teachers and system administrators (30 in-house and 10 outside) who attended the workshop. The technical sessions were conducted by the system administrators **Mr. Harvansh Singh**, who demonstrated the installation of Moodle on Ubuntu Linux using Virtual Box and **Dr. Amita Sharma** who provided an overview of Moodle Learning Management software and focused on self learning of the management of Moodle through spoken tutorials.

Moodle is a learning management system (LMS in short) which helps teachers and educators create online courses for more adaptive and customized learning. Developed in 2002, it is a free and open source software and is being used by many small and large institutions to create and deliver courses online to their students. It was concluded that Moodle supports many built-in features ranging from the basics such as file upload, assignments, quizzes, notifications and advanced features such as forums, quizzes, wiki, etc. It also has many easy-to-install plug-ins such as attendance, reminders, analytics etc. to supplement these features. The workshop proved to be very informative and it will certainly help in academic development.



Workshop on Moodle Learning Management System

Workshop
on
Koha and Library Automation
(Batch I)
12 October 2018

A one day workshop was organized by IIS University, Jaipur, a Remote Centre of IIT Bombay outreach programme, in collaboration with IIT Bombay on the “**Open Source Library Software Koha**” under the project National Virtual Library of India which is an initiative of the Ministry of Culture, Government of India to be held on **Friday, 12 October 2018 from 9.30 AM to 6.00 PM.**

The workshop was conducted through a blended mode, using both live video conferencing facility (A-VIEW) and Hands-on sessions at the remote centre.

There were 23 library professionals who attended the workshop. The technical sessions were conducted by the system administrators **Mr. Harvansh Singh**, who demonstrated the installation of Koha on windows and Ubuntu Linux using Virtual Box and **Dr. Sonal Jain** who provided an overview of Koha the library management software and focused on self learning of the management of Koha through spoken tutorials.

It was concluded that Koha supports all library housekeeping activities such as Acquisition, Cataloging, Circulation, Serial Control, Patron Management, and OPAC. It also supports Web 2.0 tools. Thus, Koha can be readily configured to the needs of each library and is updated with new features frequently. The workshop proved to be very informative and it will certainly help in academic development.



Workshop on Koha and Library Automation (Batch I)

Workshop
on
Koha and Library Automation
(Batch II)
9 March 2019

A one day workshop was organized by IIS (deemed to be University), Jaipur, a Remote Centre of IIT Bombay outreach programme, in collaboration with IIT Bombay on the “**Open Source Library Software Koha**” under the project National Virtual Library of India which is an initiative of the Ministry of Culture, Government of India to be held on **Saturday, 9 March 2019 from 9.30 AM to 6.00 PM.**

The workshop was conducted through a blended mode, using both live video conferencing facility (A-VIEW) and Hands-on sessions at the remote centre.

There were 11 library professionals who attended the workshop. The technical sessions were conducted by the system administrators **Mr. Harvansh Singh**, who demonstrated the installation of Koha on windows and Ubuntu Linux using Virtual Box and **Dr. Sonal Jain** who provided an overview of Koha the library management software and focused on self learning of the management of Koha through spoken tutorials.

It was concluded that Koha supports all library housekeeping activities such as Acquisition, Cataloging, Circulation, Serial Control, Patron Management, and OPAC. It also supports Web 2.0 tools. Thus, Koha can be readily configured to the needs of each library and is updated with new features frequently. The workshop proved to be very informative and it will certainly help in academic development.



Workshop on Koha and Library Automation (Batch II)