

File No.NMEICT (MS)/PAB/14

Government of India
Ministry of HRD
Department of Higher Education

National Mission on Education through Information & Communication Technology
(NMEICT) New Delhi

(Mission Secretariat)

10th May, 2010

Sub: Minutes of the 14th Meeting of Empowered Committee of Experts (Project Approval Board) of National Mission on Education through Information & Communication Technology held 22nd March, 2010

Sir/Madam,

A copy of the Minutes of the 14th Meeting of the Empowered Committee of Experts (Project Approval Board) of National Mission on Education through Information & Communication Technology held on 22nd March, 2010 at 5.00 p.m. in the Chamber of Secretary (Higher Education), First Floor, Shastri Bhavan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education, Ministry of Human Resource Development, is sent herewith for information and necessary action.



(Harvinder Singh)
Deputy Secretary (PAE) &
Nodal Officer (NMEICT)
Tele: 011-23382604

Encl: As above.

All Members of Project Approval Board of National Mission on Education through Information & Communication Technology (As per list enclosed)

Copy, along with a copy of Minutes, to: PSO to Secretary (HE), PS to AS&FA and Joint Secretary(DL) – for information.

Project Approval Board of National Mission on Education through Information and
Communication Technology (NMEICT)

List of Members

S.No.	Name, Designation and Address	Phone No., Fax and Email
1.	Secretary, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi Chairperson	
2.	Mr. S.K. Roy Additional secretary & Financial Adviser, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi	
3.	Secretary, Planning Commission, Yojana Bhawan, New Delhi-110001	Fax: 23096575
4.	Secretary, Department of Telecommunications, Sanchar Bhawan, New Delhi-110001	Fax: 23711514
5.	Secretary, Department of Information Technology, Ministry of Communication and Information Technology, New Delhi	Fax: 24363134
6.	Secretary, Department of Space, Lok Nayak Bhawan New Delhi-110003	Fax: 080-2345328
7.	Dr. A.Mukhopadhyay Adviser/Scientist 'G', SERC Division, M/o Science & Technology, D/o Science & Technology, Technology Bhawan, New Delhi-110016	Fax: 26602193
8.	Director, Indian Institute of Technology, Powai, Mumbai - 400076	Fax: 91-22-25723546
9.	Director. Indian Institute of Technology, Roorkee-247667 Uttarakhand	Fax: 91-1332-273560
10.	Director, Indian Institute of Technology, North Guwahati Guwahati-781039 Assam	Fax: 91-361-2690762 91-361-2692321

11.	Director, Indian Institute of Technology, P.O. Kharagpur -721302	Fax: 91-3222-282000
12.	Director, Indian Institute of Technology, P.O. IIT Chennai Chennai -600036	Fax: 91-44-22578003
13.	Director, Indian Institute of Technology, Kanpur-208016 UP	Fax: 91-512-2597790 91-512-2590260
14.	Director, Indian Institute of Science, Bangalore-560012 Karnataka	Fax: 91-80-23600936
15.	Director. Indian Institute of Science, Hauz Khas New Delhi-110016	Fax: 91-11-26582659
16.	Prof. V.N.Rajashekhar Pillai Vice-Chancellor, Indira Gandhi National Open University (IGNOU), Maidan Garhi, New Delhi	
17.	Prof. Pramod Tandon Vice-Chancellor, North Eastern Hill University (NEHU), Shillong	
18.	Prof. H.P.Kincha Vice-Chancellor, Visvesvarya Technological University, Belgaum- 590018	
19.	Mr. R.P.Agrawal Former Secretary C 1/17, Bapa Nagar New Delhi-110003	23384306 rpa1949@gmail.com
20.	Prof. U.B.Desai IIT Hyderabad Ordnance Factory Estate, Yeddemailaram- 502205 Hyderabad Andhra Pradesh	Phone : 040-23016028 040-2301 6033 Email : ubdesai@iith.ac.in , director@iith.ac.in
21.	Prof. M.K.Surappa IIT Ropar Nangal Road, Rupnagar (Ropar) Punjab 140001	Tel. (91)1881-223391(O) Tel. (91)1881-223393(Fax) E-mail: director_rpr@admin.iitd.ac.in
22.	Prof. Sudhir K. Jain IIT Gandhinagar Room: 112A Western Laboratory Extension Chandkheda, Gandhinagar -382424 Gujarat	Phone: (91-512) 259 7867 email: skjain@iitk.ac.in Web: http://www.iitk.ac.in/nicee/ski

23.	Prof. Prem Kumar Kalra Director, IIT, Rajasthan C/o Indian Institute of Technology Kanpur IIIrd Floor, Halicopter Building, Kanpur-208016	Ph.:05122596244/6245 Fax: 0512 2596244 Email: kalra@iitk.ac.in
24.	Prof. Madhusudan Chakraborty Director, IIT Bhubaneswar Office of the Director Indian Institute of Technology Bhubaneswar Samantapuri (Rearside of Hotel Swosti Plaza) Nandan Kanan Road Bhubaneswar-751 013	Phone: 0674-2301982 Fax: 0674-2302983 Email:- director@iitbbs.ac.in
25.	Prof. Anil.K.Bhowmik Indian Institute of Technology Patna Navin Government Polytechnic Campus Patliputra Colony Patna 800 013	Phone: +91-612-2552067 Fax : +91-612- 2277383 Email: iitpatnaoff@iitp.ac.in
26.	Shri Pramod Bhasin Chairman, National Association of Software and Services Companies (NASSCOM), International Youth Centre Teen Murti Marg Chanakyapuri New Delhi 110 021 Phone: 91-11-,2301 0199 Fax: 91-11- 2301 5452	Phone: 0124 4022929 Fax: 0124 2356976 Email: prema.swaminathan@genpact.com
27.	Dr. Ajay Khare Director School of Planning & Architecture, Transit Campus: Sports Complex, MANIT, Bhopal-462051	Phone: 0755 2670910 Fax: 0755 2670908 Email: director@spabhopal.ac.in
28.	Prof. S.G.Deshmukh Director IIIT Gwalior Morena Link Road, Gwalior 474 010	Phone: 0751 2449807 Fax: 0751 2449813 Email: director@iiitm.ac.in
29.	Dr. M.D.Tiwari Director IIIT Allahabad Deoghat, Jhalwa Allahabad	Phone: 09415235175 Fax: 0532 2430006 Email: mdt@iiita.ac.in

Copy also to, along with Minutes to:

1. Shri Navoin Soi
Director (F)
MHRD
Shastri Bhawan
New Delhi
 2. Mr. N. Ravi Shanker
Joint Secretary
Department of **Information** Technology
Min. of Communication & IT
CGO Complex, Lodhi Road,
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 3. Dr. B.K. Murthy
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 6. **Dr.D.K.Paliwal**
Dy. Educational Adviser (DL)
Department of Higher Education
MHRD
Shastri Bhavan
New Delhi
 7. Shri Mithun Dutta
System Administrator
E-Gyankosh
Indira Gandhi National Open University (IGNOU)
Maidan Garhi
New Delhi
- He is requested to upload the Minutes sent herewith on the Sakshat Portal.

Minutes of the 14th Meeting of the Project Approval Board of National Mission on Education through Information and Communication Technology held on 22nd March, 2010 at 5.00 p.m. in the Chamber of Secretary (Higher Education), First Floor, Shastri Bhavan, New Delhi

The 14th Meeting of the Project Approval Board of National Mission on Education through Information and Communication Technology was held on 22nd March, 2010 at 5.00 p.m. in the Chamber of Secretary (Higher Education), First Floor, Shastri Bhavan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education.

The list of members who participated in the meeting is at Annexure-I.

Mrs. Vibha Puri Das, Secretary, Department of Higher Education welcomed all the members. Thereafter, agenda items were discussed and the following decisions were taken:

Item No. 1:

Chairperson requested all the members to give their comments, if any, on the Minutes of the 13th PAB Meeting. Since no comments were received, the Minutes of the 13th PAB Meeting held on 25th February, 2010 were then confirmed.

Item No. 2:

The PAB noted the Action Taken Report on all the items.

Item No. 3:

The PAB was informed about the progress made in this regard. Presently there are 15 NKN POPs. So far BSNL has been asked to provide connectivity to universities within 150 kms of NKN POP. Large number of universities, therefore, would not get covered. The matter was taken up with BSNL. The BSNL has proposed that for such universities i.e. universities beyond 150 km from the present NKN POP, the BSNL will provide connectivity from BSNL POP with additional 155 mbps on yearly rent of Rs.23.40 lakhs with one year minimum lock-in period. This rent will be discontinued on providing of connection with NKN POP. The matter was discussed in detail. It transpired that with the likelihood of approval of NKN project by the Cabinet; more NKN POPs are likely to come up soon. PAB was of the view that the progress in providing connectivity to the universities beyond 150 km of NKN

POP be synchronized with NKN activity of providing more NKN POPs in the country. As such, the number of such universities beyond 150 kms of NKN POP and requiring urgent connectivity would be very few. Even in the case of those universities which would be beyond 150 kms, the rent should not be payable after connection with NKN POP has been provided. The remaining part of un-used rent would form part of the capital investment. PAB, therefore, did not find the proposal of BSNL of 1 year lock-in-period as acceptable. Further, keeping in view of the fact that Rs.2 crore was meant for universities within 150 kms of NKN POP (for which free connectivity of 10 years with NKN POP is to be provided) proportionate rate should not be more than Rs.20 lakhs for one year. Of course, the 10% partnership discount will also be applicable. BSNL/MTNL may initiate work for providing connectivity to all the universities. Only part payment can be released in the first instance. The full amount of Rs.2 crore for such universities will get paid to BSNL/MTNL only on providing of 1 Gpbs connectivity through NKN POP.

Table Agenda

Item No.1:

Payment to BSNL/MTNL for providing connectivity

- The PAB has approved the proposal of MHRD for two separate demand notes for Rs.300 crores and balance amount so that DOT may be advised to release Rs.300 crore to BSNL by this department and demand for payment of balance amount of Rs.365 crores to BSNL be processed separately for payment.

However, during discussion, the issue of providing effective VPN broadband connectivity to the colleges and universities also came up. It was informed by a PAB member that college connections were behaving more like internet connections in standalone mode and VPN aspect was missing from them. The representative of BSNL reported that the exact VPN broadband connectivity can be provided only on availability of static IP addresses. The PAB stressed the need for providing VPN to colleges. It was proposed that Static IP addresses may be provided for the time being by BSNL for effective VPN broadband connectivity. In the meantime IIT Madras server could be connected to BSNL VPN with 155 Mbps link to provide services to colleges on BSNL VPN. The IIT Madras server would then be able to implement VPN and video conferencing between those colleges by using the dynamic IPs based addressing Scheme

PAB was also concerned of the progress made by the BSNL so far. The BSNL was, therefore, asked to make a detailed presentation before the PAB in the next meeting indicating the progress made in providing VPN broadband connectivity to colleges and universities so far

General Point:

- The PAB also advised that for public awareness, a document in the form of a "booklet" had to come out for effective dissemination of the Mission's Objectives and Goals throughout the country.

For preparation of the booklet Prof. Uma Kanji Lal from IGNOU has been identified. The Booklet should come out specifically for different categories, such as general public, educational institutions, government bodies, etc.

The Booklet so prepared shall be passed on to UGC for free distribution among various universities/institutions.

Item No.2:

The PAB approved to delegate powers to the chairperson of PAB for approving the specifications and floating of Expression of Interest for the Low Cost Device.

Item No.3:

Educational Resource Planning (ERP)

The PI, Prof.Y.N.Singh presented details of the project. As per the project proposal the cost of the project is Rs.19.36 crores for 3 years duration and most of the cost is towards manpower deployment in developing ERP system'.

- The PAB in its 13th Meeting held on 25th February, 2010 requested for experts' opinion and accordingly the experts/Reviewers were invited for appraising the importance or otherwise of the project.

In this regard, experts in the area of ERP, namely, Shri Ravinder Gupta, CRIS, Shri K.M.Satish, Everron Ltd, Chennai, Dr.S. Ramani, IIT,Bangalore and Shri Vijay Devnath, Konkan Railway attended the 14th PAB meeting and all the experts reviewed the project. The summary of their opinion on the said project is given below:

Dr.Ramani mentioned that 'ERP projects need very detailed contract between and implementer and users. Ideally, a commercial entity like Infosys implementing would be preferable. But such a system over this massive scale would cost huge amount of money.

- Considering the budget, doing it in open source by academic institutes is a better possible way.

Mr. K.M.Sathish from Everonn pointed out that the project was the need of the day. The specification document has lot of details for some components and some of them have less. But the idea and concept was good and doable. This initiative would help the India academia.

Accordingly to Mr. Ravinder Gupta from CRIS, the task is huge and is the need of the day, and more details should be worked out. Considering the already done work, it is doable task by the team.

Accordingly to Mr. Vijay Devnath from Konkan Railway, the objectives and specifications are clearly drawn, and the project is the need of the hour. Such an initiative should not be delayed for the benefit of academic community of India.

The PAB on hearing the experts opinion had a detailed deliberation on the issue as to how the project idea could be made workable and how the said project would be used by the end users. The PAB noted that nothing ventured, nothing gained is the theme of the hour and as we move ahead to achieve the objective, a lot of challenging tasks have to be encountered and it has to be addressed while the project is being carried out. Further, PAB opined that for each module responsible institutions be identified and standardization of the module should also be undertaken with a nodal IT/administrative person from that institute.

The PAB considered the proposal and approved Rs.1936 lakhs (subject to the overall ceiling approved by the Cabinet) for the Educational Resource Planning project.

Item No.4:

Sanction of Rs.14 lakhs to Chandigarh Administration

The PAB was informed that a workshop was organized at Chandigarh on 11th March, 2010 by the Standing Committee Members in collaboration with Chandigarh Administration. The response of faculty from colleges in Chandigarh was overwhelming and the same was informed to the PAB.

Considering the close coordination by the Chandigarh Administration in the dissemination of Mission's Objectives, PAB approved Rs.14 lakhs to Chandigarh Administration to be placed with the Special Secretary (Finance), Department of Education, Chandigarh Administration for preparing 2 lectures for each of the 35 projects (List enclosed-Annexure-II) as pilot.

The meeting ended with vote of thanks to the Chair.

Annexure-I

Attendance of the 14th Meeting of the Project Approval Board (PAB) of the National Mission on Education through Information & Communication (NMEICT) Technology held on 22nd March, 2010 at 5.00 p.m. in the Chamber of Secretary (Higher Education), First Floor, Shastri Bhawan, New Delhi

S.No.	Name, Designation and Address	Phone No., Fax and Email
1	Ms. Vibha Puri Das Secretary (HE) MHRD, Shastri Bhawan, New Delhi Chairperson	
2	Mr. R.P.Agrawal C1/17, Bapa Nagar, New Delhi	23384306 (M) 9910823311 rpa1949@gmail.com
3	Mr.V.N.R. Pillai VC,IGNOU	9810982888 011-29532484
4	Mr. M.K. Surappa Director IIT,Ropar	09878100300
5	Mr. N. Ravi Shanker Joint Secretary DIT	nravishanker@nic.in 24363124
6	Mr. S.Ramani Prof. IIIT Bangalore	ramani@iiitb.ac.in 09845546728
7	Mr. Madan Mohan Adviser (Higher Education) Planning Commission	mmohan.edu@nic.in 9971035557
8	Mr. Navin Soi Director (Finance) Ministry of HRD	23389247 nsoi@nic.in
9	Mr. Prem Sewak Sudhish Department of Physics and Computer Science, Dayalbagh Educational Institute Agra-282110	sudhish@pcs.dei.ac.in +91-562-645-8483 Extn.21
10	Mr. Manoj Misra IIT Roorkee	manoifec@iitr.ernet.in 01332-285642
11	Mr. Padam Kumar Head,CC, IIT,Roorkee	padamfec@iitr.ernet.in 01332-285701
12	Mr. K. Mangala Sunder Professor, Chemistry Department,IIT Madras,Chennai- 600036	mangal@iitm.ac.in 09444008706

13	Dr. Y.N. Singh Associate Professor, Electrical Engineering Department IIT Kanpur-208106	ynsingh@ieee.org 09452048451
14	Mr. Vijay Devnath Chief Manager (IT) Kokan Railway 6 th Floor, Belapur Bhawan,CBD Belapur, Navi Mumbai- 400614	cmit@konkanrailway.com vdevnath@gmail.com 9870592520 9422969520
15	Mr. K.M. Satish President Technical Education, Everonn Education Ltd., 96499, Industrial- Estate, Perungudi, Chennai-600096	kmsatish@everonn.com kmsatish@gamil.com 9445011729
16	Dr. B.K. Murthy Director & HOD NKN, DIT	bkn@
17	Prof. Ajay Chakrabarty Dean (CE), IIT Khargpur-721302 West Bengal	deance@hiil.iitkgp.ernet.in
18	Ms. Phalguni Gupta IIT, Kanpur-208016	pg@iitk.ac.in
19	Mr. Ravinder Gupta GM CRIS, Pragati Maidan Metro Station, New Delhi-110001	ravindergupta@cris.org.in
20	Prof. Raghu Raman Amrita Universtiy	raghu@amrita.edu 9895028779
21	Prof. Nesar Ahmad Dept. Of Computer Engineering, Aligarh Muslim University	nesar.ahmad@gmail.com 09411878942
22	Mr. Aasim Zafar Department of Computer Science A.M.U Aligarh	aasimzafar@rediffmail.com 09319098461
23	Prof. G. Panda Dean (Academic Affairs) IIT, Bhubaneswar	ganapati.panda@gmail.com
24	Prof. Uma Kanjilal Director, SOSS, IGNOU, New Delhi	98104 88895 ukanjilal@ignou.ac.in
25	Mr. Arush Kumar Project Manager DEI, Dayalbagh, Agra	arushkumar023@gmail.com
26	Prof. Ashok Kumar Department of Electronics & Communication Engineering NIT Hamirpur (HP)	ashok@nitham.ac.in 09418083138

27	Prof Navoltam Chanel Computer Science & Engg. Dept NIT Hamirpur (HP)	nar@nitham.ac.in 09418094345
28	Prof. Satish Kumar Dayalbagh Educational Institute Agra- 282110	satish.kumardb@gmail.com
29	Dr. Gursaran Dayalbagh Educational Institute Agra- 282110	gursaran.dei@gmail.com
30	Ms. Sonika Gupta Shri Mata Vaishno Devi University Katra, Jammu	sonika-g@rediffmail.com
31	Mr. Sushant Kumar SMVD University	sushant001@gmail.com
32	Mr. Vishwa-Mohan DGM (BSNL) BSNL Bhawan, New Delhi	vishwamohan@bsnl.co.in
33	Dr. K.S. Daya Dayalbagh Educational Institute Agra- 282110	sdoyal@gmail.com

**List of Proposals presented by the Project Investigators from Chandigarh
on 20th March, 2010**

- 1. Development of e-content for B.Sc. Home Science (Composite) and B.Sc. Home Science (Human Development and Social Welfare)**

Control No.: Se-12031010587

Presented by/Co. Project Investigator Dr. Suman Verma , Government Home Science College, Sector 10, Chandigarh

- 2. e-Content development of B.Sc Home Science (Composite) B.Sc Home Science (Apparel & Textile Design)**

Control No.: Je-13031010603

Presented by/Co. Project Investigator: Mrs. Jatinder Sohi & Mrs. Sangeeta Dewan,
Government Home Science College, Sector 10 Chandigarh.

- 3. English Communication Skills and Soft Skills**

Control No.: Se-15031010623

Presented by/ Co Project Investigator: Prof. Sharda Kaushik & Dr. Bindu Bajwa,
Regional Institute of English, Chandigarh Administration

- 4. Phonetics, Phonology & Spoken English**

Control No.: Se-12031010594

Presented by/ Co Project Investigator: Prof. Sharda Kaushik, Regional Institute of English

- 5. Development Of E-Content Module On Biodiversity Of Insects In The Subject Of Zoology For Undergraduate Course Of Indian Universities**

Control No.: De-14031010616

Presented by Project Investigator: Dr Dalip Kumar, PG. GOVT. COLLEGE FOR GIRLS,
SECTOR-42, CHANDIGARH

- 6. e-content generation related to under-graduate and post-graduate courses regarding Hindi Sahitya Ka Itihas,**

PI – Sukhdev Singh Minhas, PG, Government College, Chandigarh

7. Development of e-contents in the subject of Psychology.

Control No.: Re-16031010680

Presented by/Co. Project Investigator: Dr. Rajesh Kumar, : Post Graduate Government College, Sector-46, Chandigarh.

8. E-Content generation of the syllabus of Fundamentals of Sociology, which is foundational course in social sciences

Control No.Re-16031010677

Principal investigator: Asst Prof. Dr. Rakesh Thakur, Department of Sociology, Post Graduate Government College, Sector – 11, Chandigarh.

9. Project Proposal on “Developing suitable pedagogical methods for the teaching of Aristotle's Poetics and Dr. Samuel Johnson’s Preface to Shakespeare (Critical Theory) for Postgraduate students in INDIA”

Submitted by : Ms.Savita Devi, Lecturer in English(Contract), Govt.College-46,Chandigarh , Er. NEHA BATTA, Principal Investigator, HOD (IT Department) , Gurukul Vidyapeeth, Ramnagar, Banur .

10. Development of e-Contents in Psychology Degree Course of Indian Universities/Colleges

Control No: De-16031010670

Presented by/Co. Project Investigator: Dr. Sudhir K Samantaray, Department of Psychology, Post Graduate Govt. College Sector-11 Chandigarh

11. Development of 40 hours e-Contents on Management in Physical Education & Sport

Proposed by Dr. R.S.Brar (Associate Professor) HoD, Physical Education Post Graduate Government College Sector-11, Chandigarh

12. To study Punjabi language, book-one act play/drama, through E-content/ICT, with the help of Audio-visual techniques

PRESENTED BY: Dr. Kanwaljit Kaur Dhillon, Associate Professor , Post Graduate Govt. College Sector - 11, Chandigarh

13. "Development of e-learning/online teaching material for various subjects of BCA, **B.Sc.** and **M.Sc.** (IT & Computer Science) courses which will cover most of the syllabi of various universities and a pilot project of Artificial Intelligence"

Submitted by: Bhupat Rai Bansal, Associate Professor, PG Govt College, Sec-11, Chandigarh

14. E-Content Generation of the Undergraduate and Postgraduate Syllabus with Special reference to Plant Biotechnology"

Control No.: VE-16031010648

Presented by/Co. Project Investigator: Dr VISHAL SHARMA, Botany Department P.G. Govt. College for Girls, Sector-I 1, Chandigarh

15. Development of **e-Learning/Online** Teaching Material in the Subject: Public Administration

Presented by: Dr.Nemi Chand (Principal Investigator) Assistant Professor Department of Public Administration Post Graduate Govt. College for Girls Sector-42 Chandigarh

16. Development of e-learning/online teaching material in the area - Accounting for the Graduate Commerce and Management course of Indian Universities

Presented by: Prof. Mukesh Sharma (Principal Investigator), Assistant Professor, Department of Commerce, Post Graduate Govt. College, Sector-I 1 Chandigarh

17. Development of **e-learning/online** teaching material in the area - Accounting for the Under-Graduate Commerce and Management course of **Indian Universities**

Control No: Me-15031010628

Presented by/Co. Project Investigator: Mohan Lal Sharma (PI), Post Graduate Govt. College Sector-I 1 Chandigarh

18. E-Content development in the subject of Company Law

Control No: Ae-15031010630

Presented by/Co. Project Investigator: Amarpreet Singh Sijher (PI), V. Magesh (Co-PI), Post Graduate Government College, Sector-46 Chandigarh

19. Development of **e-learning/online** teaching material in the selected subjects of Commerce and Management for **Graduate/Post Graduate** classes of Indian Universities

Presented by: Manoj Kumar (Principal Investigator) Assistant Professor Department of Commerce Post Graduate Govt. College Sector-11 Chandigarh

20. Project Proposal One-Content for the following courses

- Teaching Business Communication to B.Com-I students of Panjab University, Chandigarh, Kurukshetra University, Kurukshetra and Guru Nanak Dev University, Amritsar
- Teaching of composition- Developing skills in- Paragraph, Essay, Precis Writing and Personal Letters
- Teaching components of Grammar-
Parts of Speech, Phrases, Sentences and Clauses, Sentence Structure and Transformation of Sentences
- Teaching Poetry with special reference to-teaching of Slice of Life (An Anthology of Poetry, Short Stories, and Prose), a part of English Syllabus of B.A-I students of Panjab University, Chandigarh

Postgraduate Government College, Sector-11, Chandigarh

Presented by: Principal Investigator Saagiri Thapar, Associate Professor, M.A., M.Phil (Anthropological linguistics) H.O.D (Postgraduate Deptt. Of English), Mr. V.K. Deveshwar, Associate Professor, M.A., M.Phil, H.O.D (Functional English), Aparna Kaushal, Associate Professor MA English, MA Mass Communications and PGD Journalism, Associate Professor, Savita Devi M.A., M.Phil (English), Lecturer on contract basis

21. PROPOSAL FOR INTRODUCTION OF E-CONTENT ON NEW CHALLENGES TO DEMOCRACY: AREAS OF PERFORMANCE AND TENSIONS

Chief Investigator: Dr. Sudhir Chander Hindwan, Department Of Political

Science, Post Graduate Government College For Girls, Sec 42, Chandigarh-160036

- * 22. Proposed E-content Detailed Project Report on Corporate Accounting

Principle Investigator: V. Magesh, Asst. Prof. Post Graduate Government College, Sector 46, Chandigarh.

23. Development of e-content for **B.Sc. Home Science (Dietetics)** and **B.Sc. Home Science (Composite)**

Principal Investigator: Mrs Madhu Nanda Department of Foods and Nutrition, Government Home Science College Sector 10, Chandigarh

24. Development of e-content

B.Sc. (Home Science) Composite
B.Sc. (Home Science) Human Development and Social Welfare
B.Sc. (Home Science) Interior Design Management
B.Sc. (Home Science) Dietetics
B.Sc. (Home Science) Apparel and Textile Design
B.Sc. (Home Science) Hospitality Management

Principal Investigator:

Veena Kumari Goyal, Ph.D. Department of Chemistry, Government Home Science College, Sector 10, Chandigarh

25. Development of e-content for **B.Sc. Home Science (Composite)** and **B.Sc. Home Science Interior Design Management**

Principal Investigator: Mrs. Sushil, M.Sc., Government Home Science College, Sector 10 Chandigarh.

26. Development of **e-learning/online** teaching material in the area of Biotechnology for the Under Graduate Biotechnology (Hons.) course of the Indian Universities

Principal Investigator: Promila Malik, Associate Professor, Department of Biotechnology, Post Graduate Govt. College, Sector-11, Chandigarh.

27. Concepts of Music and Dance in North India

Principal Investigator: Dr. Sneh Lata Badhwar, Associate Professor, Post Graduate College for Girls, Sector 42, Chandigarh.

28. Developing e-learning audio-visual online teaching material for Under Graduate English Grammar course of Indian Universities.

Principal Investigator: Jitender Singh, P.G. GOVT. COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH

29. E-contents on Environment Education

Principal Investigator: Dr. Sneh Sharma (Principal Investigator), M.A, Ph.D, M.Sc. Ecology and Environment science, Pursuing M.B.A, Associate Professor/Head, Dept, of Environment Science, Government College, Sector-46, Chandigarh

30. E-contents on “Hindi Sahitya Ka Itihas”(Aadi Kal, Bhakti kal, Reeti Kal and Aadhnunic Kal)

Principal Investigator: —Dr. Sneh Sharma (Principal Investigator), M.A, Ph.D, M.Sc. Ecology and Environment science, Pursuing M.B.A, (Associate Professor, Dept. of Hindi), Government College, Sector-46, Chandigarh

31. DECODING THE GREEK CLASSICS FOR UNDER-GRADUATES & POST GRADUATE STUDENTS

Principal Investigator: Project Investigator: Dr. Shikhar Kr. Sarma, Government College, Sector-46, Chandigarh

32. E-contents on Human **Resource** Management and Organizational Behaviour

Principal Investigator: Dr. Jagdish Kumar Sehgal M.Com., Ph. D Associate Professor, Head, Post Graduate Dept. of Commerce, Post Graduate Govt. College, Sector 46, Chandigarh

33. **MARKET BEHAVIOUR WITH CONSUMPTION ECONOMICS AND PRODUCTION- ECONOMICS AS ITS MAIN CONSTITUENTS**

Principal investigator: Mrs. Nirupinder Kaur (M.A., M.Phil. Economics), Co-Investigator(s): Mrs. Vandana Gupta (M.A., M.Phil. Economics), Mrs. Prabal Jyoti, (M. Sc. Ind. Economics, M.Phil Economics), GOVT. COLLEGE FOR GIRLS, SECTOR 42, CHANDIGARH.

34. Development of holistic e-learning /online teaching material on Management and Work Behaviour in management courses of **B.Com, B.B.A, B.B.S, B.B.M, M.Com, M.B.A**, and other graduate & post graduate courses for developing global managers.

Project PI: Dr. Amandeep Kaur, M.Com, Ph.D, Department of Commerce, Post- Graduate Government College for Girls Sector 42, Chandigarh

35. Development of e-Contents on "Sport Training and Sports Psychology "

Principal Investigator: Dr. Sanjit Sardar (Assistant Professor), M.P.Ed., M.Phil., Ph.D. (Recipient of JRF), Co-Investigator(s): Dr. Ajit Singh (Asst. Professor), Dr. Anshul Singh Thapa (Asst. Professor)

PG Govt College, Sector-11, Chandigarh.