

The 53rd meeting of the School Board of the School of Sciences was held on 6th July, 2015 at 11.00 a.m. in the Conference Room of Block D, IGNOU, Maidan Garhi, New Delhi – 110068.

The following members were present:

1. Prof. Vijayshri, Director (SOS), Chairperson
2. Prof. H. B. Srivastava, Centre of Advanced Study in Geology, Banaras Hindu University
3. Prof. R.P. Tandon, Former Head, Dept. of Physics and Astrophysics, Univ. of Delhi
4. Prof. T. K. Jena, SOHS, IGNOU
5. Prof. M. Parhar, STRIDE, IGNOU
6. Dr. Manoj Kulshreshtha, SOET, IGNOU
7. Prof. S.C. Garg, SOS, IGNOU
8. Prof. B.S. Saraswat, SOS, IGNOU
9. Prof. Parvin Sinclair, SOS, IGNOU
10. Prof. Sunita Malhotra, SOS, IGNOU
11. Prof. Poornima Mital, SOS, IGNOU
12. Prof. Geeta Kaicker, SOS, IGNOU
13. Prof. Jaswant Sokhi, SOS, IGNOU
14. Prof. Neera Kapoor, SOS, IGNOU
15. Prof. Sujatha Varma, SOS, IGNOU
16. Prof. S.R. Jha, SOS, IGNOU
17. Prof. B. I. Fozdar, SOS, IGNOU
18. Prof. Javed A. Farooqi, SOS, IGNOU
19. Prof. Amrita Nigam, SOS, IGNOU
20. Prof. M.S. Nathawat, SOS, IGNOU
21. Dr. S. Venkataraman, SOS, IGNOU
22. Dr. Kamalika Banerjee, SOS, IGNOU
23. Dr. Vijay Kumar Baraik, SOS, IGNOU
24. Dr. Sanjay Gupta, SOS, IGNOU
25. Dr. Seema Kalra, SOS, IGNOU
26. Dr. Kakoli Gogoi, SOS, IGNOU

27. Shri Prabhat Kumar Sangal, SOS, IGNOU

Prof. Seemi Farhat Basir, Prof. S. Kumaresan, Prof. Rajender Parsad, Prof. K. Barik, Prof. Shubha Gokhale and Dr. Bano Saidullah could not attend the meeting.

At the outset, the Chairperson welcomed the members of the School Board. Thereafter, the following items on the agenda were deliberated:

Item No. 1: To confirm the minutes of the 52nd meeting of the School Board of the School of Sciences held on 8th May, 2015 and to note the action taken thereon.

SB 53.1.1 The School Board was informed that the Minutes of the 52nd meeting of the School Board of the School of Sciences held on 8th May, 2015 were circulated to members on June 4, 2015 and no comments had been received.

SB 53.1.2 The Minutes of the 52nd meeting of the School Board were confirmed as circulated on June 4, 2015.

SB 53.1.3 The Action Taken Report was noted by the School Board.

SB 53.1.4 A copy of the confirmed Minutes of the 52nd meeting of the School Board of the School of Sciences held on 8th May, 2015 (without Annexures) and the Action Taken Report are placed at **Annexures 1 and 2**, respectively.

Item No. 2: Matters arising from the minutes.

There were no matters arising out of the Minutes.

Item No. 3: To consider and approve the Minutes of the Expert Committee meeting held on July 1, 2015 to resolve the matter of Associate Degree holders from Defence Services.

SB 53.3.1 The School Board was informed that on May 15, 2015, a request had been received by the School from the Defence Unit of IGNOU to 'examine and place their opinion/suggestion/guidelines on the registration form and the choice of courses to be offered during registration of Associate Degree Holders under Gyandeeep & Akashdeep into 3rd year of B. Sc. under Vertical Mobility Scheme.' The 3rd year Registration form and the list of IGNOU courses were appended along with other relevant documents pertaining to the decisions of the Academic Council (in its 55th meeting) and the Board of Management (in its 118th meeting). Since this was the first time that the case of Associate Degree Holders in Science under Gyandeeep and Akashdeep was being referred to the School of Sciences, the School requested for details such as copies of the MoUs with the Army and the Air Force, lists of courses

taken by the Associate Degree Holders in Science along with the syllabi of the courses and whether all Associate Degree Holders in Science fulfilled the minimum eligibility criteria for admission in the B. Sc. Programme. These details were received on June 9, 2015 from the Defence Unit.

In this context, the School Board was informed that IGNOU had signed MoUs with the Army and the Air force under which the defence personnel who had done 10 + 2 with science subjects were registered with IGNOU for the award of Associate degree in Science as part of the IGNOU Community College Schemes for the Army and Air force. The School Board was further informed that a large number of students enrolled from Army and Air Force had completed courses worth 64 credits for the award of Associate degree in Science as per the lists attached at **Annexures 3 and 4**. They were eligible for lateral entry into 3rd year of the Bachelor's degree programme of IGNOU in order to complete the remaining 32 credits from IGNOU's B.Sc. courses.

The School Board was also informed of the decision taken by the Board of Management of IGNOU in its 118th meeting held on June 15, 2013 to 'discontinue the existing Community College Scheme' and that 'prior approval of the statutory authorities shall be obtained for offering programmes'.

In compliance with the decision of the Board of Management, IGNOU, the School of Sciences discussed the issue in a meeting of the School Council held on June 22, 2015 and was of the opinion that while the University should be pro-active in resolving the issue, the provisions of the Act, Statutes and Ordinances of the University must be adhered to strictly and the academic credibility of the University should not be compromised in any way. Moreover, the University's own B. Sc. Degree holders should not be put to any disadvantage on account of the provisions of the MoUs with the Armed forces.

The School Council noted that the Associate degree in Science comprised courses that were applied in nature. It suggested that the University could explore offering a B. Sc. (Hons.) Degree in Applied Sciences, while conforming to UGC stipulations. However, the programme structure and syllabi recommended by a duly constituted Expert Committee needed to be processed for necessary statutory approvals. The Minutes of the School Council meeting held on June 22, 2015 are appended at **Annexure 5**.

Following the recommendations of the School Council, a meeting of the Director, SOS and senior Faculty members with Gyandeep and Akashdeep officials was held

on June 25, 2015 at 11:30 a.m. in the Conference Room of the School of Sciences to know their perspective. After detailed deliberations, it was agreed that

1. The Associate degree holders could be awarded B. Sc. (Hons.) Degree in Applied Sciences, provided they opted for courses worth 32 credits from the B. Sc. Programme of IGNOU. The School shall propose specific sets of courses from the already approved list of courses;
2. Options for B. Sc. (Hons.) in the relevant Science Disciplines of the School of Sciences (Physics, Chemistry, etc.) could also be opened with the facility of credit transfer as per existing IGNOU norms and procedures, of the courses completed by the Associate degree holders. Moreover, they would have to opt for a prescribed set of additional courses approved by the statutory bodies.

The Minutes of the meeting are appended at **Annexure 6**.

In order to obtain statutory approvals in a given time frame and treating this case as a special one, an Expert Committee meeting was held on 1st July, 2015 to consider the matter and specifically recommend the nomenclature of the programme, programme structure for the award of the degree B. Sc. (Hons.) Degree in Applied Sciences and the list of courses to be prescribed to Associate degree holders.

The Minutes of the Expert Committee meeting (**Annexure 7**) along with its appendixes were placed before the School Board for its consideration and approval.

SB 53.3.2 While deliberating the issue in detail, including the recommendations of the Expert Committee, the School Board expressed the following views:

- The provisions of the Act, Statutes and Ordinances of the University should have been adhered to strictly, and the School Board should not have been bypassed while deciding on the programmes to be offered, their structure and the syllabi of the courses and it should not happen, in future.
- Any step taken to honour the commitment of IGNOU to the existing Associate Degree Holders in Science should be a one-time measure, not to be quoted as precedence.
- The B. Sc. degree holders of IGNOU should not be put to a disadvantage.

SB 53.3.3 After deliberating at length, the majority decision of the School Board School was that

The Associate Degree Holders in Science from the Army and the Air Force be admitted to third year in IGNOU for the award of the degree of B. Sc. (Hons.) in Applied Sciences **as a one-time measure.**

The School Board further decided that

Only the existing students admitted through Gyandeeep and Akashdeep for the Associate Degrees in Science **till January, 2012** be enrolled in the third year for the B. Sc. (Hons.) in Applied Sciences degree and be offered courses from the prescribed list given ahead.

The University authorities may like to seek the approval of the UGC, if needed.

The following Programme structure for the B. Sc. (Hons.) in Applied Sciences was approved by the School Board:

S. No.	Category of Courses	Total Credits	No. of credits from Associate degree and from IGNOU
1.	Foundation Courses	24	16 credits as prescribed in the MoU and 8 credits worth Foundation Courses in Languages (in English, Hindi or MILs) of IGNOU
2.	Subject based	64 (48 + 16)	48 credits from the courses offered as part of the Army/Air Force Associate degree including all practical courses and 16 credits from basic science courses offered in the B. Sc. programme of IGNOU as given in Tables 1 and 2 ahead.
3.	AOC	8	8 credits from the list of AOCs offered in the BDP of IGNOU that do not have Lab or project component.

Separate groups of courses were prescribed for the following two distinct groups of students and are listed in Table 1 and Table 2, respectively.

Group A: Associate degree holders from Akashdeep and Gyandeeep (except for the Associate degree holders from Gyandeeep who have taken courses from Group 40, Groups 45 to 57 in Annexure 3).

Group B: Associate degree holders from Gyandeeep who have taken courses from Group 40, Groups 45 to 57 in Annexure 3.

Table 1: List of courses worth 32 credits prescribed for Group A students

S. No.	Category of Courses	List of Courses (Course code and title)	Credits
1.	Foundation Courses	1. Any 8 credits from Foundation courses in English, Hindi, MILs (FEG-01, FEG-02, BHDF-101, FHD-02, etc.)	8
2.	Discipline specific courses	<p>2. Courses worth 16 credits from Physics and/or Chemistry from the following list subject to a minimum of 8 credits from any one Discipline opted for. For example, students may enrol for courses worth 16 credits from either Physics or Chemistry or courses worth 8 credits each from Physics and Chemistry from the following list:</p> <p><u>Physics (16 credits or at least 8 credits)</u></p> <p>i. Elementary Mechanics (BPHE-101) and Oscillations and Waves (BPHE-102) (to be taken together)</p> <p>ii. Thermodynamics and Statistical Mechanics (PHE-06)</p> <p>iii. Electric and Magnetic Phenomena (PHE-07)</p> <p>iv. Optics (PHE-09)</p> <p>v. Electrical Circuits and Electronics (PHE-10)</p> <p><u>Chemistry (16 credits or at least 8 credits)</u></p> <p>i. Inorganic Chemistry (CHE-02)</p> <p>ii. Physical Chemistry (CHE-04)</p> <p>iii. Organic Chemistry (CHE-05)</p> <p>iv. Spectroscopy (CHE-10)</p>	<p>2 + 2</p> <p>4</p> <p>4</p> <p>4</p> <p>4</p> <p>4</p> <p>4</p> <p>4</p> <p>4</p> <p>4</p>

3.	AOCs	8 credits from the list of AOCs offered in the BDP of IGNOU that do not have Lab or project component.	8
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Table 2: List of courses worth 32 credits prescribed for Group B students

S. No.	Category of Courses	List of Courses (Course code and title)	Credits
1.	Foundation Courses	Any 8 credits from Foundation courses in English, Hindi, MILs (FEG-01, FEG-02, BHDF-101, FHD-02, MILs)	8
2.	Discipline specific courses	<p>Courses worth 16 credits from Chemistry and/or Life Sciences from the following list subject to a minimum of 8 credits from any one Discipline opted for. For example, students may enrol for courses worth 16 credits from either Chemistry or Life Sciences or courses worth 8 credits each from Chemistry and Life Sciences from the following list:</p> <p style="text-align: center;"><u>Chemistry</u></p> <p>1. Inorganic Chemistry (CHE-02) 4</p> <p>2. Physical Chemistry (CHE-04) 4</p> <p>3. Organic Chemistry (CHE-05) 4</p> <p>4. Biochemistry (CHE-09) 4</p> <p style="text-align: center;"><u>Life Sciences</u></p> <p>1. LSE-01 : Cell Biology 4</p> <p>2. LSE-02 : Ecology 4</p> <p>3. LSE-03 : Genetics 4</p> <p>4. LSE-05 : Physiology 4</p>	
3.	AOCs	8 credits from the list of AOCs offered in the BDP of IGNOU that do not have Lab or project component.	8

The School Board also decided that alternative options for B. Sc. (Hons.) in the relevant Science Disciplines of the School of Sciences (Physics, Chemistry, etc.) could be offered with the facility of credit transfer of the courses completed by the Associate degree holders in Science as per IGNOU norms and procedures. Candidates desirous of pursuing these programmes would opt for the prescribed set of additional courses required for the respective degrees.

SB 53.3.4 The School Board further decided that no new Community College scheme should be designed for potential candidates from the Armed Forces who may like to seek admission in IGNOU after the cut-off date of January, 2012 and who would like to pursue graduate degree programmes in sciences. Instead, the University should design specific degree programmes in sciences taking into account their prior learning in a realistic and holistic manner and grant admission to such aspirants directly into those programmes.

Programmes in science related areas should be designed, developed and offered following the laid down procedures of IGNOU and statutory approvals taken, once a request is received from the Army/Air Force.

SB 53.3.5 The School Board ratified the names of the following experts as members of the Expert Committee, the approval for which had been accorded by the Vice Chancellor:

External members

1. Prof. R. M. Mehra (Retd.)
University of Delhi, South Campus
Professor Emeritus,
School of Engineering and Technology, Sharda University, NOIDA
2. Prof. Shareef Ahmed
Professor of Chemistry and
Dean, Faculty of Sciences, Jamia Millia Islamia, New Delhi
3. Prof. Neera Sareen
School of Life Sciences, JNU, New Delhi
4. Prof. Arif Ali
Department of Biosciences, Jamia Millia Islamia, New Delhi

Faculty members from the School of Sciences:

1. Prof. S. C. Garg
2. Prof. B. S. Saraswat
3. Prof. Geeta Kaicker
4. Prof. J. Sokhi
5. Prof. S. R. Jha

Item No. 4: To consider and approve the list of external examiners of Shri Pushapkant Rao (Enrolment number, 122877887), Ph.D. scholar in Life Sciences under Prof. S. S. Hasan and Dr. B.L. Bhellum, Dept. of Botany, Govt. College for Women, Jammu, for the thesis entitled “Studies on Ethnobotany of District Kathua, J & K State”

SB 53.4.1 For the sake of confidentiality, the list of examiners of the Shri Pushapkant Rao (Enrolment number, 122877887), Ph.D. scholar in Life Sciences under Prof. S. S. Hasan and Dr. B.L. Bhellum, Dept. of Botany, Govt. College for Women, Jammu, for the thesis entitled “Studies on Ethnobotany of District Kathua, J & K State” was read out for the approval of the School Board.

Details of Shri Pushap Kant Rao

1. Enrolment No.: **122877887**
2. Date of Registration: **January 2012**
3. Topic: **Studies on Ethnobotany of District Kathua, J & K State.**
4. Supervisor(s):
Prof. S.S. Hasan, (Internal Supervisor), and
Dr. Bachan Lal Bhellum, (External Supervisor)
Department of Botany,
Govt. College for Women
Parade, Jammu, J &K
5. Date of Pre-Ph.D. thesis submission seminar before Doctoral Committee:
27th May, 2015
6. Number of Publication(s): One; **Ethnomedicinal plants of Kathua district, J&K, India, Journal of Ethnopharmacology, 171 (2015) 12-27.**

SB 53.4.2 The School Board approved the list of examiners and advised that the approved list of examiners should not be circulated as a part of the Minutes but be forwarded confidentially to the Research Unit.

Item No. 5: To consider and grant post facto approval of the names of the teachers invited as special invitee for the Course Design Committee meetings of the LT-01, LT-02, LT-03 and LT-04 courses of CPLT.

SB 53.5.1 The School Board was informed that the Course Design Committee meetings of the LT-01, LT-02, LT-03 and LT-04 courses of CPLT were held on 15th May 2015, 26th May

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2015, 16th June 2015 and 10th May 2015, respectively. The names of the school teachers invited as special invitees for all the four courses were approved by the Vice Chancellor with a request to place the names in the School Board of School of Sciences for *post facto* approval as per the following details:

S.No.	Course Name	Teacher's Name (School)
1.	Good Laboratory Practices (LT-01)	Mrs. Nandini Das Gupta, PGT Chemistry (Mothers International School, New Delhi)
2.	Laboratory Techniques in Life Science (LT-02)	Mrs. Anjali Sarin, Head, Department of Biology (Mothers International School, New Delhi)
3.	Laboratory Techniques in Chemistry (LT-03)	Ms. Shadab Bano, PGT Chemistry (Sr. Sec. School, Jamia Millia Islamia, New Delhi)
4.	Laboratory Techniques in Physics (LT-04)	Dr. Pramada Lele, PGT Physics (Springdales School, New Delhi)

SB 53.5.2 The School Board granted post-facto approval to the special invitees to the Course Design Committee meetings of the LT-01, LT-02, LT-03 and LT-04 courses of CPLT as above.

Item No. 6: To consider and approve the revised list of Experts for the Programme Expert Committee of CPLT.

SB 53.6.1 The School Board was informed that the following names of the Experts for the Programme Expert Committee for CPLT were approved vide SB 50.18.2 in the 50th meeting of the School Board of the School of Sciences held on 29th Sept., 2014:

S. No.	Name	Address
1.	Prof. S. C. Garg	School of Sciences, IGNOU
2.	Prof. B. S. Saraswat	School of Sciences, IGNOU
3.	Prof. S. S. Hasan	School of Sciences, IGNOU
4.	Dr. Swadesh Taneja	Associate Professor (Retired), School of Sciences, IGNOU Res.: D 55, Saket, New Delhi-110017 Res. : 011-40545010; Mobile : 9350333274
5.	Dr. Bharti Sarkar	Reader (Retired), Maitreyi College, Univ. of Delhi Pocket 40/186 Chittaranjan Park, New Delhi-110019 Ph. 41600238/39

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6.	Dr. Parveen Garg	Associate Professor (Botany), Swami Shraddhanand College, Delhi-36 Mobile: 9811226923; E-mail: parveenssn@yahoo.co.in
7.	Dr. Balram Pani Principal	Bhaskaracharya College of Applied Sciences, Dwarka, Mob:9813099610, 9841069672
8.	Dr. R. Venkataraman (Retd.)	K M College, University of Delhi C-5/23, Safadarjang Development Area, New Delhi –110016. Mob. : 9810025743; 99686732403
9.	Dr. Lalita S. Kumar	School of Sciences, IGNOU
10.	Prof. Neera Kapoor	School of Sciences, IGNOU
11.	Prof. S. R. Jha	School of Sciences, IGNOU

The School Board was further informed that Prof. S.S. Hasan, one of the members of the Expert Committee, had superannuated on June 30, 2015. In view of his expertise and involvement in the programme, it was proposed by the in-house Programme team to retain his name in the Programme Expert Committee as an external Expert. It was also proposed to include the name of Prof. Amrita Nigam in the Committee.

SB 53.6.2 The School Board approved the following revised list of experts for the Programme Expert Committee of CPLT:

S. No.	Name	Address
1.	Prof. S. C. Garg	School of Sciences, IGNOU
2.	Prof. B. S. Saraswat	School of Sciences, IGNOU
3.	Prof. S. S. Hasan (Retd.)	School of Sciences, IGNOU
4.	Dr. Swadesh Taneja	Associate Professor (Retired), School of Sciences, IGNOU Res.: D 55, Saket, New Delhi-110017 Res. :011-40545010; Mobile : 9350333274
5.	Dr. Bharti Sarkar	Reader (Retired), Maitreyi College, Univ of Delhi Pocket 40/186 Chittaranjan Park, New Delhi-110019 Ph. 41600238/39
6.	Dr. Parveen Garg	Associate Professor (Botany), Swami Shraddhanand College, Delhi-110036 Mobile: 9811226923; E-mail: parveenssn@yahoo.co.in
7.	Dr. Balram Pani Associate Professor	Bhaskaracharya College of Applied Sciences, Dwarka, Mob:9813099610, 9841069672

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8.	Dr. R. Venkataraman (Retd.)	K M College, University of Delhi C-5/23, Safadarjang Development Area, New Delhi – 110016. Mob. : 9810025743; 99686732403
9.	Dr. Lalita S. Kumar	School of Sciences, IGNOU
10.	Prof. Neera Kapoor	School of Sciences, IGNOU
11.	Prof. S. R. Jha	School of Sciences, IGNOU
12.	Prof. Amrita Nigam	School of Sciences, IGNOU

Item no. 7: Any other Items with the permission of the Chair.

No item was taken up under any other matter.

The meeting ended with a vote of thanks to the Chair.


(Vijayshri)
Chairperson

List of Annexures

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| Annexure 1 | Minutes of the 52nd meeting of the School Board of the School of Sciences |
| Annexure 2 | Action Taken Report on the minutes of 52nd meeting of the School Board of the School of Sciences |
| Annexure 3 | List of Courses completed by Associate degree holders under Gyandeeep |
| Annexure 4 | List of Courses completed by Associate degree holders under Akashdeep |
| Annexure 5 | Minutes of the meeting of School Council of the School of Sciences held on June 22, 2015 |
| Annexure 6 | Minutes of the meeting of officials from Gyandeeep and Akashdeep with senior Faculty members of the School of Sciences held on June 25, 2015 |
| Annexure 7 | Minutes of the Expert Committee meeting held on July 1, 2015 |