

ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH (AcSIR)

Proceedings of the 22nd Meeting of the Senate

The 22nd meeting of Senate of Academy of Scientific and Innovative Research (AcSIR) was held on November 30, 2018 at, 11:00 hrs. at CSIR-Science Centre, Lodhi Road, New Delhi. The meeting was attended by the following members of the Senate:

SI. No.	Name of Participants	Mode of Participation
1	Prof. Rajender S. Sangwan, Director AcSIR, Chairman	In Person
2	Prof. K. Ravikumar, Associate Director, AcSIR, Member	In Person
3	Prof. Ajay Dhar, Associate Director, AcSIR, Member	In Person
4	Prof. Deepak Pental, Delhi University, Member	In Person
5	Prof. Sanjay Mittal, IIT, Kanpur, Member	In Person
6	Prof. G. Narhari Sastry, CSIR-IICT, Member	In Person
7	Prof. V. Subramanian, CSIR-CLRI, Member	In Person
8	Prof. Suman Kumari Mishra, CSIR-NML, Member	In Person
9	Prof. Shantanu Sengupta, CSIR-IGIB, Member	In Person
10	Dr. Bhanu Pratap Singh, CSIR-NPL, Member	In Person
11	Dr. Chetan Gadgil, CSIR-NCL, Member	In Person
12	Dr. Ramanuj Narayan, CSIR-IICT, Member	In Person
13	Prof. GK Patra, CSIR-4PI, Member	In Person
14	Dr. L. Venkatakrishnan, CSIR-NAL, Member	Through VC

^{*} The member participating through video conferencing could participate in discussion and deliberation of the meeting with clarity.

Prof. Ashwini Nangia, Prof. Sanjay Kumar, Prof. Amitabha Chattopadhyay, Prof. Harini Nagendra, Dr. Suvendra Nath Bhattacharyya, Dr. D. Srinivasa Reddy and Ms. R.V. Lakshmi could not attend the meeting due to prior engagements.

The quorum of the meeting was fulfilled.

The meeting was also attended by Ms. Arpita Sengupta, Senior Manager, AcSIR as non-member Secretary of the senate.

PRE-SENATE MEETING SPECIAL EVENT

Prof. Rajender S Sangwan, the Chairman, Senate informed the members of the senate about the appointment of Prof. Chandra Sekhar as Chairman, Board of Governors, AcSIR and Chancellor, AcSIR.

Prof. Sangwan also informed the Senate about joining of Prof. Shekhar C. Mande as DG, CSIR who is also ex-officio Vice Chairman of the AcSIR Board of Governors.

layender My Page 1 of 11

AcSIR | MoM_22nd Meeting of the Senate, 30.11.2018

Prof. Sangwan expressed that AcSIR would be greatly benefited from the rich R&D/Academic experiences and intellectuality of Prof. Chandra Sekhar as well as Prof. Shekhar Mande.

This was the First meeting of Senate after the Chancellor, AcSIR and Vice Chairman BoG had assumed their respective offices. The Chairman and members of the Senate welcomed them and expressed their happiness to work with them for the growth, better academic standing and attainment of very high standards for AcSIR.

Prof. Chandra Shekhar made it possible to join the event through Video Conference. Members of the AcSIR senate were introduced to him. He also gave a message to the members on the occasion.

Prof. Chandra Shekhar gave a brief account of genesis of AcSIR. He emphasized on the importance of synergy between the CSIR and AcSIR, and the current need of its strengthening for the mutual benefit of AcSIR and CSIR. He believed that AcSIR should develop human resources that will be well equipped for their potential to serve in research mandate of institutions like CSIR and other similar institutions. This is useful for future national research projects and missions. He suggested that AcSIR should be involved in scouting in newer areas of R&D where CSIR intends to enter and develop competency and technology in those areas. Thoughtfulness, ideation and HR competency in those areas through young researchers like AcSIR research students is a very significant and important vertical of such contributions.

He also emphasized the need to strengthen and expand the AcSIR doctoral programs in Engineering Sciences in CSIR Labs. He mentioned that compared to MHRD institutions of higher education, the fellowship opportunities in CSIR/AcSIR are far less. Therefore, special attention is needed on many fronts to enable comparable fellowship opportunities for students for pursuing AcSIR PhD program in Engineering disciplines in CSIR Labs with key R&D mandate in different domains of Engineering. He specified the provisions of such fellowships through CSIR or otherwise should be explored. Particularly, he emphasized that endeavours may also be made to get AcSIR included as a premier institution where the recently announced Prime Minister's Fellowships could be availed by Engineering graduates. As a follow-up, guidance in development of well-planned and high-quality research projects by passionate and bright students can increase the chances of getting such fellowships.

He concluded his address by wishing members all the success in their endeavours for taking AcSIR to the top-tiers and looking forward for their suggestions.

The Chairman, Senate thanked the Hon'ble Chancellor for his message.

INITIATION OF THE MEETING

Item No. 1: Welcome address by the Chairman, Senate

Prof. RS Sangwan, Chairman, Senate welcomed the members. He also informed the house that Prof. Shantanu Chaudhary, member of AcSIR as one of the Directors of CSIR institute had relinquished the office of Director CSIR-CEERI to join as Director, IIT Jodhpur. The house acknowledged his immense contribution as member of the Senate AcSIR.

He requested the Secretary to put the Agenda of the meeting before the house one by one.

AcSIR | MoM_22nd Meeting of the Senate, 30.11.2018

Page 2 of 11

Item No. 2: Confirmation of the proceedings of 19th meeting of the Senate

The Chairman, Senate suggested that before confirming the proceedings of the 21st meeting of the Senate, members should deliberate on the format of the PhD Degree Certificates and the provision of a Subject Certificate. He emphasized that since changing the format of the degree is an activity of rare occurrence, it was an important and critical decision deserving an elaborate discussion again before confirmation or revision, if any, desired.

The matter was deliberated deeply and approved as below:

A. Degree Certificate: The revision in the formats of the AcSIR's Ph.D. degree in Science and Ph.D. Degree in Engineering of AcSIR that were finalized and approved in the 21st Meeting of the senate were confirmed after discussion. The versions confirmed and approved are reproduced hereunder for records and implementation:

PhD Science:

SI. No. 20XX/XX/XXX

ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH ON THE RECOMMENDATION OF THE SENATE HEREBY CONFERS UPON

Name of the Student

THE DEGREE OF

DOCTOR OF PHILOSOPHY IN SCIENCE

UNDER THE FACULTY OF _____SCIENCES

FOR THE RESEARCH WORK CARRIED OUT AT CSIR-Name of the Laboratory, City

WITH THE THESIS TITLE

Full Title of the Thesis Full Title of the Thesis Full Title of the Thesis

Title continues Title continues

THE CANDIDATE HAS BEEN DECLARED QUALIFIED FOR THE AWARD OF THE DEGREE ON DDTH MONTH, 20XX.

DIRECTOR

CHANCELLOR

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(Contd..)

PhD Engineering:

SI. No. 20XX/XX/XXX

ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH ON THE RECOMMENDATION OF THE SENATE HEREBY CONFERS UPON

Name of the Student

THE DEGREE OF

DOCTOR OF PHILOSOPHY IN ENGINEERING

UNDER THE FACULTY OF ENGINEERING SCIENCES

FOR THE RESEARCH WORK CARRIED OUT AT CSIR-Name of the Laboratory, City WITH THE THESIS TITLE

Full Title of the Thesis Full Title of the Thesis Full Title of the Thesis

Title continues Title continues Title continues

THE CANDIDATE HAS BEEN DECLARED QUALIFIED FOR THE AWARD OF THE DEGREE ON DDTH MONTH, 20XX.

DIRECTOR

CHANCELLOR

B. Subject Certificate: A certificate in continuity with the Degree Certificate with names of upto three subjects that were very well reflected the subject-nature of the research work of the Ph.D. thesis (as per recommendations by the DAC and concurrence by the Student after the successful clearance of the Open Colloquium) would be issued by AcSIR to the students along with the Degree Certificate. The Associate Director (Academic) and the Director, AcSIR would be the two signatories in the Subject Certificate. This would be applicable from Open Colloquium cleared on and after the first day of January 2019 and onwards. The essence of the format as concurred by the Senate during the meeting is as follows:

SUBJECT CERTIFICATE

With reference to Degree Certificate bearing SI. No. XXXXX,

Name of the Student

has been awarded Ph.D in Science/Engineering Degree on DD.MM.YYYY under the faculty of Biological/ Chemical/ Physical/ Mathematical and Information/Engineering Sciences.

> This Ph.D research thesis entitled is in the subject areas of XXXXX and XXXXXX

Associate Director (Academic)

Director

AcSIR | MoM_22nd Meeting of the Senate, 30.11.2018

lajender Jugurar Page 4 of 11 The Senate decided that, however, the format of the Subject Certificate may be further improved, and finalized, if required, with the approval of the Director, AcSIR.

The proceedings of 21st Senate meeting were confirmed by the Senate.

Item No. 3: Action Taken Report (ATR) on the 21st Meeting of the Senate

The Senate members were updated about the actions taken with respect to the decisions and suggestions on each of the Agenda items of the 21st meeting of the Senate. Members were also updated about the extent of completion /progress of tasks in this regard. Detailed discussions were held for those items where difficulties in implementation were encountered. Only those items where action(s) were still in process were reported below with status:

- 1. Item No. #3(a): Introduction of Online Examination of PhD Thesis: As suggested by the Senate, INIs were to be approached for the systems which are being used by them and their help and assistance will be sought in Vendor identification. Matter is being taken up separately as a part of Academy Management System.
- Item No. #20(11): Inclusion of "Mathematical & Information Sciences" as a division under "Faculty of Engineering" in addition to its current position under "Faculty of Science". The detailed modalities are being worked out.
- Item No. #22(iv): Review of 400 level courses: Meetings of Board of Studies (BS and CS) have been concluded and combined recommendations will be formalized after conduct of meetings of the remaining Board of studies (i.e ES and PS).
- 4. Item No. #29: Decision of Status of students whose functional continuity in AcSIR program has ceased or not known: Activity of working out the modalities for cancellation of registration of such students from the student data-base of AcSIR is in process.
- 5. Item No. #36: Possibility of admission of CSIR Group III Staff for PhD program of AcSIR: The matter is posted for discussion with DG, CSIR for the view on the same, before it would be taken up again by the house.
- 6. Item No. #39: Proposal received from foreign Universities for Collaborative PhD Program: Senate members were informed that the draft agreement with University of Western Australia have been finalized and being further processed. The Agreement with Deakin University have been finalized from AcSIR side and confirmation from Deakin University is awaited for its way forward.

Due actions on or implementation of all other decisions of 21st meeting of the senate had been completed.

The Senate appreciated and accepted the Action Taken Report.

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ITEMS FOR INFORMATION

Item No. 4: Inter-Lab Transfer of AcSIR students: The senate noted the transfer of following student of AcSIR from one CSIR Lab to another:

Bhupendra Mali (10CC17A18007), Chemical Sciences from CSIR-IICT to CSIR-(i)

Revised Enrollment Number-10CC17A26062

Item No. 5: Change of faculty/discipline of Study of AcSIR students: Senate noted the changes in faculties by the AcSIR student as detailed below:

Anirban Ghoshal, CSIR-IICT from Biological Sciences to Chemical Sciences. Revised Enrollment Number-10BC16A18055

Item No. 6: Change of program for enrolled students: Senate noted the changes in programs by the AcSIR students as detailed below:

J. Aswathy, CSIR-CEERI, from M.Tech (advanced Electronics Engineering) to IDDP.

Revised Enrollment Number-32EE18A0614

Monika Sonkar, CSIR-CEERI, from M.Tech (advanced Electronics Engineering) (ii) to IDDP.

Revised Enrollment Number-32EE18A06012

Gheyasuddin Ahmad, CSIR-SERC, from M.Tech to IDDP. (iii) Revised Enrollment Number-32EE18A41004

Item No. 7: Change of Student's PhD Program from Regular to Part time: Senate noted changes in status of PhD programs by the AcSIR student:

Sachin Sharma (10BB13J02004), Biological Sciences at CSIR-IGIB upon completion of Open Colloquium on 02.07.2018

Item No. 8: Students availing Academic Break: Senate noted information on students availing one-time Academic Break due to various reasons at following laboratories:

- Shafeer KB (10MM12J45003), Mathematical & Information Sciences, at CSIR-4PI for the duration 01.09.2017 to 31.08.2019
- Varun Kumar (10BB15A08001), Biological Sciences, at CSIR-CFTRI for the duration (ii) 31.08.2018 to 30.04.2019
- Priyanka Dhaka (10BB17J33001), Biological Sciences at CSIR-IHBT for the duration (iii) 16.11.2018 to 31.05.2019
- Jovitha Lincy V. J (10PP13A29003), Physical Sciences at CSIR-NIO for the duration (iv)10.07.2018 to 10.01.2019

Item No. 9: Updated information on strength and status of faculty members of AcSIR: The Senate noted the updates in the faculty list of AcSIR due to recruitments, promotion, superannuation, resignation etc. of CSIR Scientists since the 21st Senate Meeting. The dyender dromer information will be updated on the AcSIR website.

ITEMS FOR RATIFICATION

Item No. 10: Matters Related to AcSIR Faculty

- Extension of tenure from one year to three years of appointment as Adjunct faculty at CSIR-NISCAIR: The Senate noted and ratified the request for extension of tenure from one year (as approved by the Senate at its 21st meeting), to three years to each of the Seven Adjunct faculty at CSIR-NISCAIR
- Proposal of CSIR-URDIP for appointment of superannuated Scientists of CSIR (ii) as Emeritus Professor, AcSIR: The Senate noted and ratified the appointment of Dr. RR Hirwani and Dr. MG Kulkarni as Emeritus Professor, AcSIR in an honorary capacity, for a period of three years.

Item No. 11: Students selected for PhD Programs of AcSIR for August 2018 session (other than those already reported at 21st Senate): The senate ratified the selection of remaining 05 nos. of students for PhD program in Engineering Sciences at CSIR-SERC with approval of Chairman Senate, on recommendation of Dean, Engineering Sciences. Also, selection of 03 students at LVPEI, Hyderabad, Associate Centre of AcSIR, was reported to the Senate and ratified.

Item No. 12: Students selected M.Tech Programs for August 2018 session (other than those already reported at 21st Senate): The senate ratified the selection of remaining 01 no. of student for M.Tech program at CSIR-SERC with approval of Chairman Senate, on recommendation of Dean, Engineering Sciences.

Item No. 13: Results and award of PhD Degrees in Sciences and Engineering: The Senate ratified the results for 178 students for the award of PhD degree in Science and Engineering since the 21st meeting of the Senate held on August 13, 2018.

Item No. 14: Results and award of Master's Degrees: Senate ratified the results of the 10 students of Integrated M.Sc.-PhD program in Nutrition Biology (CSIR-CFTRI), 29 students of Food Technology (CSIR-CFTRI) and 06 students of Integrated MSc-PhD program in Health Informatics (AcSIR-PHFI) whose result had been approved by the Chairman, Senate on the recommendation of the Dean, Biological Sciences.

Item No. 15: Results and award of Post Graduate Diploma: Senate ratified the results of 11 students in Patinformatics (CSIR-URDIP) that had received approval of the Chairman, Senate on recommendation of the Associate Dean, Mathematical & Information Sciences.

Item No. 16: Modification in Existing Courses: The Senate ratified modification of existing courses under different Faculties as under:

Faculty	Lab Name	Modification of Courses (Course no.)
Biological Sciences	CSIR-IMT	 Bio-IMT-2-3404 Cellular Homeostasis
Physical Sciences	CSIR-NIO	1. PHY (NIO): 3-4202 2. PHT (NIO): 3-4238 3. Research Methodology
AcSIR MoM_22 nd Meetir	ng of the Senate, 30.11.2018	Page 7 of 1

Item No. 17: Proceedings of the 15th meeting of Finance Committee held on November 17, 2018: The Senate noted major recommendations of the 15th meeting of the Finance Committee (as listed below) and ratified the same.

- I. Modification of Classification Code;
- II. Revised Budget Estimate for 2018-19 and Budget Estimate for 2019-20;
- III. Flexible allocation of funds to CSIR Labs rather than a bar or rate of percentage;
- IV. Transfer of Savings Bank account at SBI Rail Bhawan Branch to SBI Main Branch Ghaziabad;
- V. Implementation of SBI Collect for tuition fee collection from January 2019;
- VI. Expenditure related to conduct of AcSIR-Dr APJ Abdul Kalam Summer Training Program to be scaled down to make it financially sustainable

Item No. 18: Induction of Academy Professors (as detailed in the Agenda): The Senate noted and ratified the proposal to induct five eminent personalities, considering their enormous contribution in the fields of Science and Technology, innovations and entrepreneurship for the award of Academy Professor of AcSIR. The Senate deferred the ratification of one of the nomination due to an administrative issue at this time.

ITEMS FOR APPROVAL

Item No. 19: Nomination of one Academy Professor of AcSIR (as detailed in the Agenda): The Senate accepted the proposal to induct the nominated eminent personality as proposed in the Agenda as Academic Professor of AcSIR.

Item No. 20: Proposal for recognition of Dr. Shekhar C. Mande, DG, CSIR as Professor of Eminence, AcSIR: The Senate recommended recognition of Dr. Shekhar C. Mande, DG, CSIR as Professor of Eminence, AcSIR, for approval, effective from the date of his assumption of charge i.e., October 16, 2018.

Item No. 21: Appointment of Dean, Physical Sciences: The Members of the Senate had a detailed deliberation on the nomination for Dean, Physical Sciences. The Senate recommended the nomination and authorized the Director to finalize the appointment of the Dean at the next level of discussion in the process, wherein if required, other names may also be considered and finalized then and there.

Item No. 22: Proposal for Cancellation of Registration of two students (as detailed in Agenda): The Senate members were appraised of the enrollment/registration of two Group III Staff of a CSIR Lab (as detailed in Agenda) for the PhD program of AcSIR in the August 2017 and January 2018 sessions due to incorrect information in their application forms. The current AcSIR allow only Group IV staff of CSIR to enroll for AcSIR PhD program. The Senate reviewed the matter and approved the cancellation of enrollment/registration of the two students of a CSIR Lab (as detailed in the Agenda) with immediate effect.

Item No. 23: Issues related to academic matters of AcSIR: Cut off for SGPA and CGPA continuation: Senate members discussed and agreed to the following proposal related to evaluation and SGPA & CGPA cut off:

- For Masters program and PG-Diploma programs, a student needs to have a SGPA (i) ≥6.0 in each semester and a CGPA ≥6.5 from second semester onward for continuation.
- For Ph.D program a student needs to have CGPA ≥ 6.5 to pass his/her course (ii)
- Minimum grade point to be earned to pass any individual subject is 6.0, for all the (iii) programs.

Item No. 24: Restoration of system of approval of the PhD Thesis Board: After detailed deliberations, the Senate decided that systems in other leading institutions of higher education including Institutions of National Importance may be thoroughly examined for arriving at the appropriate process and provisions thereof. Till then, present system of constitution of PhD thesis Board may be continued with.

Item No. 25: Continuation of a faculty as Primary Guide after Superannuation/ leaving CSIR: Senate members discussed the current rule position wherein a student has to be allocated a Co-guide for administrative purposes in case his/her primary guide superannuates/or leaves CSIR after successful clearance of the Open Colloquium by the AcSIR student. This brings in the issue of some ethical and academic unfairness in sharing of scientific/academic credit whilst the student's doctoral research work had already been assessed to be completed.

On the basis of the above justification, the Senate approved removal of the condition of mandatory inclusion of Co-guide in such cases where the Primary Guide superannuates / leaves CSIR after successful clearance of Open Colloquium of his/her student. Therefore, a Primary Guide can continue to function so upon his/her superannuation / leaving CSIR if the student has successfully cleared the Open Colloquium. Any administrative requirement for the student in the process may be taken care of by the Coordinator of AcSIR at the CSIR lab. However, for this the Coordinator will not be a signatory of the thesis. In case, there was a co-guide for the student a priori, the preexisting co-guide would continue to be co-guide and also cater to the administrative needs of the student, if any.

Item No. 26: Applicability of Semester Fee with respect to submission of PhD Thesis:

The Senate discussed the issue of cut-off date for applicability of the semester tuition fee, primarily with respect to PhD thesis submission. The Senate approved introduction of 7th January and 7th August each year as cut-off dates for thesis submission without liability of payment of tuition fees of the ensuing semester. If the date falls on a holiday, the immediate next working day would be considered as the cut-off date. Submission of PhD thesis after the above specified cut-off dates would attract payment of full tuition fee for the ensuing semester.

Item No. 27: Proposal to keep the AcSIR Admission Portal open throughout the year: Senate members deliberated on the proposal to keep AcSIR admission portal open throughout the year in view of attracting outstanding students who prefer earliest opportunity to join an institution for PhD degree...

Senate approved the proposal, including the following as some of the modalities, for keeping the AcSIR online Admission Portal open throughout the year:

- a) AcSIR Online Admission Portal (http://130.211.247.107/acsir/online-admission/portal/acsir-online-adm-portal/index.php#/) to remain open throughout the year, accepting applications for the different AcSIR Centres (CSIR Labs);
- b) During the specified period for release of advertisements for admissions for the January and August sessions, the AcSIR Centres (CSIR Labs) to provide details of program-wise student intake for the session;
- c) Online Portal will accept applications upto a cut-off date for a particular semester, to be decided centrally by AcSIR in consultation with all the AcSIR Centres (CSIR Labs) for a particular semester but may continue receiving applications for the next session;
- d) Beyond the decided cut-off date for a particular semester, option of that particular semester would not be available to the students;
- e) Labs may select students from among the applications received in between from the online portal, but registration of such students would have to be in the ensuing session;

Further modalities may be worked upon and decided by AcSIR HQs as per suitability as a system/service.

Item No. 28: Any other Item with permission of the Chair: The Chairman Senate permitted the following items to be taken up during the meeting:

A. Prof. Suman Mishra and Dr. Chetan Gadgil, the Dean and Associate Dean of the faculty of Engineering Sciences, respectively, put forward situations where even after the six-year tenure of PhD students are over and the students still have several academic requirements (DAC. Comprehensive etc.) pending to be complete. In such cases, it was proposed that such students may de-register and then re-register to again complete the minimum residency period of three years prior to submission of thesis. The credits earned during their initial tenure may be allowed to be carried over.

The Senate discussed the matter at length and decided that the process of de-registration and re-registration would unnecessarily extend their PhD tenure to (6+3 years) or more, which is too long by any standards. In such cases of any strong genuineness, the students would be allowed to submit their thesis beyond six years with special permission of Chairman, Senate/Senate (but upto a reasonable time as decided by AcSIR). This grant of extension is being currently done as per approval of the Senate at its 19th meeting and as per OM No. AcSIR/8/1(1)-2017-Acad dated 13.11.2017 on the subject "Extension of tenure of PhD students for completion of thesis beyond prescribed period".

B. With permission of the Chair, Dr. Ramanuj Narayan, Associate Dean, Chemical Sciences, put forward the cases of two students of CSIR-IICT, Mr. V. Ganga Reddy (Enrollment #10CC17J18038) and Mr. Irfan Khan (Enrollment #10CC17J18031), as under:

Rayerder Page 10 of 11

AcSIR | MoM_22nd Meeting of the Senate, 30.11.2018

- (ii) Both the students are enrolled in Jan 2017 session
- (iii) Supervisors of Mr. Reddy and Mr. Khan are Dr. P. Srihari, Associate Professor and Dr. C. Ganesh Kumar, Associate Professor
- (iv) As per respective Supervisors' letters, these students attempted registration for PhD in Telangana University in April 2016 for academic year 2013-14, however, the results were further delayed by almost 8 months from the date of interview.
- (v) The students later applied for AcSIR PhD program in Jan 2017 session and joined CSIR-IICT
- (vi) Both the students have completed three DAC meetings; DAC IV. Open Colloquium is expected to be completed soon
- (vii) Supervisor informed that at the time of AcSIR admission notification for Jan 2017 session, the residency period i.e. minimum time before submission of thesis was 2 years
- (viii) Further, Supervisors have requested that these students may be allowed to submission their theses after completion of at least 2 years from the date of enrollment

Taking a sympathetic view of the cases, that the rule of fulfilment of minimum 3 years before thesis submission could be permitted was adopted after the students had taken admission to the AcSIR PhD program in January 2017 session, the Senate, as per Clause 9(2)(j) of AcSIR Ordinance 2017, approved in-principle the submission of the PhD these of the two students before completion of 3 years from the date of enrollment but after completion of at least two years from the date of their registration.

The Chairman, Senate may accord the final approval for submission of thesis on satisfactory compliance of above alongwith all other pre-requisites for completion of the program.

Meeting ended with a vote of thanks to the Chair.

Prof. Rajender S. Sangwan Chairman, Senate, AcSIR