

Fifth Meeting of the Senate

12th September, 2012, 11:30 hrs

AGENDA



ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH

AnusandhanBhawan, 2 Rafi Marg, New Delhi-110 001

Academy of Scientific and Innovative Research

Agenda for the Fifth Meeting of the Senate

12 September, 2012; 11:30hrs

Venue: Room No. 201, Anusandhan Bhawan, CSIR HQ, New Delhi-110 001

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INITIATION OF THE MEETING

- Item No. 1: Welcome Address by Acting Director, AcSIR and Chairperson of the Senate**
- Item No. 2: Action taken Report on the Special Meeting of the Interim Senate and Confirmation of the Minutes**

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**Item No. 2: Action taken Report on the Special Meeting of the
Interim Senate and Confirmation of the Minutes**

AcSIR had convened a Special Meeting of the Interim Senate on June 8, 2012 for ratification of admission and course related issues and discussion on certain important issues by the Interim Senate. The Action Taken Report on the same is enclosed as **Annexure – I**.

The Minutes of the Special Senate Meeting of AcSIR held on June 8, 2012 is enclosed as **Annexure – II** for confirmation by the members of the Senate.

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ITEMS FOR RATIFICATION

Item No. 3: Endorsement of M.Tech (PGRPE)-2010 results for award of M.Tech Degree in 2012

Item No. 4: Ratification of admission to Ph.D (Science & Engineering)

Item No. 5: Ratification of courses for Ph.D (Science)

Item No. 6: Updated content of M.Tech Programme (CSIR-CRRI and CSIR-CMERI)

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Item No. 3: Endorsement of M.Tech (PGRPE-2010) results for award of M.Tech Degree in 2012

The second batch of two-year-full-time residential M.Tech - Post-Graduate Research Programme in Engineering (PGRPE) took admission in 2010. Out of a total 76 students who had taken admission, 71 have completed their courses and graduating in 2012. The programme were offered in the cutting edge technological areas: Engineering of Infrastructure and Disaster Mitigation (Buildings/Roads), Advanced Semiconductor Electronics, High Power Microwave Devices and System Engineering, Mechatronics, Advanced Instrumentation Engineering, Advanced Petroleum Science & Technology, Material Resource Engineering, Engineering of Flight Vehicles, Advanced Modelling and Simulation in Chemical Engineering and Science, Environmental System Modelling and Optimization and Engineering of Structures. The programme has all the rigors and requirements that are proposed in the Integrated M.Tech-Ph.D programme of AcSIR.

The approval of the Senate is also required to authorize the Acting Director and the Acting Associate Director (Academics) to issue the M.Tech Certificates and Mark sheets of the graduating students of the M.Tech 2009 batch onwards.

Proposal: The second batch of M.Tech (PGRPE)-2010 batch consisting of 71 students are graduating in 2012. The results are placed for consideration and approval of the Senate.

The Acting Director and Acting Associate Director (Academics) may be authorized to issue the Certificates and Mark sheets of the graduating students from 2009 batch onwards.

The results are enclosed as **Annexure III**.

Item No. 4: Ratification of admission to Ph.D (Science & Engineering)

The admission of students for Ph.D programme in (Science and Engineering) of AcSIR for the August 2012 session has been completed recently and the session has started for the August 2012 session at the different laboratories. In all, **471** students have been selected in the Ph.D (Sciences) programme in the different cluster laboratories and **77** students have been selected for the Ph.D (Engineering) programme in the different laboratories.

The ratification of admission from **CSIR-CBRI, Roorkee** remained to be done at the Special Senate meeting held on June 8, 2012 for the January 2012 Session. The list of selected students from **CSIR-CBRI** is being placed for ratification by the Senate. Necessary approval has been obtained from the respective faculty Deans and from the Chairman, Senate of AcSIR for admission for the January 2012 session.

Proposal: The lists of selected candidates (partial) in the different Ph.D programmes in Science and Engineering from the different laboratories with proper approval of the respective cluster Deans and the Chairman, Senate are being submitted to the Senate for ratification for the January 2012 and August 2012 academic sessions.

Annexure –IV & V

Item No. 5: Ratification of courses for PhD (Science)

In the Special meeting of the Senate held on June 8, 2012, the Senate approved in principle the course content for Ph.D. (Science and Engineering) offered by the five Faculty of study that has been restructured as per the guidelines for credit distribution and course nomenclature.

Certain courses that have been approved in principle by the Senate have been slightly modified in terms of credit distribution and course nomenclature. The revised courses offered by CSIR-IHBT, Palampur (Biology), CSIR-URDIP, Pune (MIS) have been approved by the Senate Chairman. The same are being placed as **Annexure VI** for approval of the Senate.

In addition to the above, a few new courses are also being introduced by different laboratories that will lead to Ph.D (Science) from the August 2012 session. These courses from CSIR-IHBT, Palampur (Biology) and CSIR-IMMT, Bhubaneshwar (Biology) has received approval from the Dean and the Senate Chairman and the CSIR-IMMT course in Chemical sciences has been provisionally approved by the cluster Dean and the Senate Chairman.

Proposal: These courses are being placed as **Annexure VII** for approval of the Senate.

Item No. 6: Updated content of M.Tech Programme (CSIR-CRRI and CSIR-CMERI)

In the Special meeting of the Senate held on June 8, 2012, all the programmes offered by the different laboratories for the Integrated M.Tech-Ph.D programme of AcSIR were approved. The course content received in-principle approval for the programme on Transportation Engineering offered by CSIR-CRRI. The complete course content has now been finalized and has received the formal approval of the Dean of the Engineering faculty.

The course content of the programme on “Applied and Computational Mechanics” was already approved by the Senate in its 3rd meeting held on 11th January, 2012. Minor modifications have been made in the course content which has been approved by the Chairman, Senate.

Proposal: The M.Tech courses are being placed as **Annexure VIII** for approval of the Senate.

ITEMS FOR APPROVAL

- Item No. 7: Admission related problems: Guidelines to follow (Special situation with CSIR-CECRI)**
- Item No. 8: Mode of operation of CSIR-800 Project**
- Item No. 9: Proposal writing: Instead of two proposals, one proposal and one term paper as part of Ph.D Course work**
- Item No. 10: Award of Academy Professorship**
- Item No. 11: Adjunct Professorship at CSIR-CMMACS**

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**Item No. 7: Admission related problems: Guidelines to follow
(Special situation with CSIR-CECRI)**

The Senate, in its Special meeting held on June 8, 2012 endorsed that any student who has to enroll at AcSIR has to be selected through the online application route. However, in certain exceptional cases where the student have been selected by a laboratory who has applied through other calls of the laboratory, may also be provisionally enrolled at AcSIR provided during the interview, the committee is having a nominee of the Dean. The laboratories have been suggested to enroll such students (who have not applied online but selected via a properly constituted committee) in the next semester after they fill online application.

As approved by the Senate, these students will have to fill up the AcSIR online application form for Ph.D at the next session. In case, a Dean's nominee was not there in the interview committee, the students will have to face the interview committee. However, these students may be provisionally enrolled to the Ph.D programme of AcSIR. Also, if the students have completed the same courses and earned the credits as mandated by AcSIR and the programme coordinator of the laboratory certifies the same, then the students will formally earn the credit points. A note in this regard should come to the Chairman-Senate from the programme coordinator via the respective Deans.

A request has been put forward by the Coordinator, CSIR-CECRI, Karaikudi, duly forwarded by the Director of the laboratory for enrollment of three students, Mr. N. Mohammed Azeezulla, Mr. Raju Thota and Ms. P.Sivasakthi, who have not been selected through the AcSIR online call for August 2012, but their fellowships are going to be invalid unless they are enrolled in their Ph.D programme by a certain timeline. As such a request to have these three students enrolled in the AcSIR Ph.D programme was put forward by the Dean, Chemical Sciences after reviewing the background of the cases thoroughly. Chairman, Senate has approved the request and the admission needs to be ratified by the Senate.

Proposal: The proposal for provisional enrollment of the three students belonging to CSIR-CECRI is being placed at the Senate for approval as **Annexure IX**.

Item No. 8: Mode of operation of CSIR-800 Project

The unique nature of the coursework for the Ph.D programme of AcSIR requires that each student will have to undertake a six–eight weeks on a project concerned with societal/rural issues under the CSIR-800 Programs (4 credits). This needs to be completed before submission of thesis. Now that a few students are nearing the completion of their coursework and want to complete the CSIR-800 project requirement, the guidelines outlining the ethos and modalities of the course need to be finalized.

Proposal: The Chairman of the Course Committee of AcSIR has put forward a proposal for conducting the CSIR-800 project which has received approval of the Senate Chairman. The proposal is being placed as **Annexure X** for approval of the Senate.

Item No. 9: Proposal writing: Instead of two proposals, one proposal and one review article as part of Ph.D Course work

AcSIR course work for Ph.D (Science and Engineering) requires that each student will have to submit 2 project proposals to be prepared before comprehensive by selecting topics of high relevance and novelty, and will have state-of-the art review, methodologies, recommendations etc. (2 credits each, total 4 credit).

Inputs have been received from the course coordinators of the different laboratories, it has been noticed that at an early stage of their research career, it is difficult for the students to do justice in writing two project proposals. It has therefore been suggested to the Chairman, Senate that instead of writing two project proposals, the students may be required to write one project proposal in a highly relevant and novel area of study and one review article on their research area. The suggested format of the proposal is similar to the format of the projects funded under CSIR- Extra Mural Research scheme.

Proposal: The proposal of writing one project proposal (2 credits) and one review article (2 credits) is being placed at the Senate for discussion and approval.

Item No. 10: Award of Academy Professorship

Considering extraordinary contribution to Indian Science and everlasting innovations in the field of Solid State Chemistry, the Academy Professorship is recommended for

Prof. C.N.R. Rao, *FRS*

Considering the enormous contribution in Creation of AcSIR and extraordinary scholarly work, the Academy Professorship is recommended for

Prof. M.M. Sharma, *FRS*

Furthermore, considering phenomenal contributions to the CSIR system and individual brilliance in engineering science the Academy Professorship is recommended for

Prof. Roddam Narasimha, *FRS*

Proposal: Senate is requested to accord its approval to the above mentioned recommendations.

Item No. 11: Award of Adjunct Faculty (CSIR-CMMACS)

Currently the scientists of CSIR are considered as faculty for taking courses and being guides and co-guides of students pursuing M.Tech and Ph.D programmes of AcSIR. Apart from that, a few very distinguished scientists of very high academic and international repute have been recognized by ASIR as Academy Professors.

In many cases, the CSIR laboratories conduct courses where leading scientists from outside the CSIR system take the courses and also it may help the students if they can be guided by the reputed academicians in their research work. These leading scientists from outside the CSIR system may be considered and recognized as “Adjunct Faculty” of AcSIR where they can advise students on their research problems and also be a co-guide with an AcSIR Faculty from the CSIR system being the formal Guide of the student.

A proposal has been received from Dr. Seshu, CSIR-CMMACS for nominating four distinguished experts to be considered for adjunct faculty position in AcSIR in the faculty of Mathematical and Information Sciences. Their rich experiences in their own respective domains will add strength to the faculty of Mathematical and Information Sciences.

Proposal: The resumes of the following experts in the MIS field are enclosed as **Annexure XI** for approval of the Senate:

1. Dr. Murali, IBM Bangalore
2. Dr. Sherlekar, Director of Parallel Computing in Intel, Bangalore
3. Dr. L.V. Satyanarayana, Microsoft, Bangalore
4. Prof. N.L. Sarda, Prof of Computer Science in IITB