

Quality Assurance Through Outcome Based Accreditation

3rd World Summit on Accreditation
(WOSA – 2016)

Quality Assurance Through Outcome Based Accreditation

3rd World Summit on Accreditation
(WOSA –2016)

Chief Editor

R. Natarajan

Organized by



Sponsored by



WOSA 2016

www.nba-wosa.in

B L O O M S B U R Y
LONDON • NEW DELHI • NEW YORK • SYDNEY



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Messages

शमीमा सिद्दिकी
SHAMIMA SIDDIQUI

भारत के राष्ट्रपति की उप प्रेस सचिव
Deputy Press Secretary
to the President of India



राष्ट्रपति सचिवालय,
राष्ट्रपति भवन,
नई दिल्ली-110004.
**PRESIDENT'S SECRETARIAT,
RASHTRAPATI BHAVAN,
NEW DELHI - 110004.**



The President of India, Shri Pranab Mukherjee, is happy to know that the National Board of Accreditation (NBA) is organising the World Summit on Accreditation (WOSA 2016) on the theme "Quality Assurance Through Outcome Based Accreditation" during March 18-20, 2016 at Gurgaon.

The President extends his warm greetings and felicitations to the organisers and participants and sends his best wishes for the success of the event.

Deputy Press Secretary to the President

M. Hamid Ansari
(Vice-President)



सत्यमेव जयते

भारत के उप-राष्ट्रपति
VICE-PRESIDENT OF INDIA

I am happy to learn that the National Board of Accreditation is organizing the World Summit on Accreditation (WOSA 2016) on the theme 'Quality Assurance through Outcome Based Accreditation' from March 18 – 20, 2016 at Leela Ambience Hotel, Gurgaon.

I am sure that the Summit will bring together organizations from across the world, committed to quality and relevance of technical education. The deliberations during the conference would help bring focus on global best practices in accreditation, improving quality of education through attainment of learning outcomes, industry expectations from academia, effective use of ICT in education and learning and quality assurance through outcome based accreditation.

I extend my warm greetings and good wishes to the organizers and the participants and wish the Summit all success.

New Delhi
18th February, 2016.

(M. HAMID ANSARI)



RAJ BHAVAN
GUWAHATI

I am glad to learn that the National Board of Accreditation (NBA) is organising the World Summit on Accreditation (WOSA 2016) which is the third in the WOSA Series of biennial conferences; during 18th to 20th March, 2016 at The Leela Ambience Gurgaon, India on the theme "Quality Assurance Through Outcome Based Accreditation" and that a Souvenir is being published to commemorate the event.

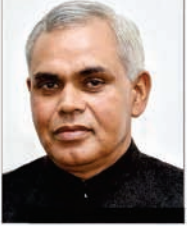
I wish the 3rd World Summit on Accreditation (WOSA 2016) organised by the National Board of Accreditation (NBA) and its Souvenir all success.

A handwritten signature in black ink, appearing to read "Padmanabha B. Acharya".

(Padmanabha Balakrishna Acharya)
Governor of Assam

Dated: January 29, 2016

Acharya Devvrat
Governor
Himachal Pradesh



आचार्य देवव्रत
राज्यपाल
हिमाचल प्रदेश

It is a matter of immense pleasure that National Board of Accreditation (NBA) is organizing a World summit on Accreditation (WOSA 2016) from 18th to 20th March, 2016 at Gurgaon on the theme "Quality Assurance Through Outcome Based Accreditation" and is also releasing a souvenir to mark the occasion.

I am glad to know that National Board Accreditation's is working towards creating an environment for global cooperation in promoting the quality and relevance of technical and professional education and working for seamless mobility of students for pursuing higher academic studies. WOSA 2016 would certainly bring together organizations from across the world in promoting education, research and cooperation among institutions, universities and other professional bodies.

I congratulate the members of the NBA for their endeavours and wish them success for the same.

(Devvrat)



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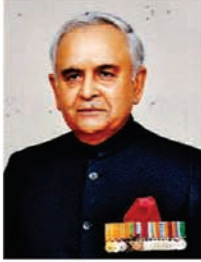
Lt Gen Nirbhay Sharma

PVSM, UYSM, AVSM, VSM (Retd)

**Governor
Mizoram**



Raj Bhavan
Aizawl - 796001
India



It gives me immense pleasure to learn that National Board of Accreditation (NBA) is organizing the World Summit on Accreditation (WOSA 2016); the third in the WOSA Series of biennial conference during 18th – 20th March, 2016 at The Leela Ambience Gurgaon, India on the theme "Quality Assurance Through Outcome Based Accreditation" and that NBA will be bringing out a Souvenir to commemorate the biennial summit.

I commend the Organizers in bringing together organizations from across the world, committed to quality and relevance of technical education to work towards evolving common quality benchmarks in teaching and learning, which may also help in promoting education, research and cooperation among institutions, universities and professional bodies.

I am sure this noble endeavour will go a long way in ensuring a sense of belonging and in empowering our people from all over India, making everyone partners in India's growth.

May I also take this opportunity to congratulate all the participants and organizers of the WOSA 2016. My best wishes for every success in all your endeavour with many more years of contribution to the nation.

Nirbhay Sharma

Lt. Gen. Nirbhay Sharma
PVSM, UYSM, AVSM, VSM (Retd)

Dated 4th February, 2016

TATHAGATA ROY
GOVERNOR

तथागत राय
राज्यपाल



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JANUARY , 2016.

I am happy to know that the National Board of Accreditation (NBA) is organizing the World Summit on Accreditation (WOSA 2016), the third in the WOSA Series of Biennial Conferences on 18th – 20th March, 2016 at the Leela Ambience Gurgaon, India on the theme “Quality Assurance Through Outcome Based Accreditation”.

I extend my greetings and felicitations to all those associated with the National Board of Accreditation and wish a grand success of the publication of the souvenir.

(Tathagata Roy)

Dr. K. K. Paul
Governor, Uttarakhand



RAJ BHAWAN
Dehradun-248 003

27 January, 2016

It gives me great pleasure to know that the **National Board of Accreditation (NBA)** is organising the World Summit on Accreditation (WOSA 2016) from March 18 to 20, 2016 at Gurgaon with the theme **“Quality Assurance through Outcome Based Accreditation”**.

This summit will create an environment for global cooperation in promoting the quality and relevance of technical and professional education. I sincerely hope that it will promote education, research and cooperation among institutions and universities.

I wish the NBA all the best for this international meet and the publication of the souvenir to mark the occasion.


(Dr. K.K.Paul)

स्मृति जूबिन इरानी
Smriti Zubin Irani



मंत्री
मानव संसाधन विकास
भारत सरकार
MINISTER
HUMAN RESOURCE DEVELOPMENT
GOVERNMENT OF INDIA

I am glad to know that the National Board of Accreditation has selected the theme “**Quality Assurance through Outcome Based Accreditation**” for the **3rd World Summit on Accreditation** being organized from **18th to 20th March, 2016**.

“Excellence is a state of mind. It is never complacent with the present, it keeps pushing boundaries. Accreditation helps to enhance and ensure the quality of professional education and is an indication that an educational Institution/Program has crossed a certain milestone.

I am sure that the deliberations during the Summit will enable sharing of experience at national and international level and will result in establishing new trends, and identifying opportunities and challenges in professional and technical education worldwide.

I extend my best wishes for the success of the Summit and look forward to the recommended action plan that emerges from the World Summit.


(SMRITI ZUBIN IRANI)

उपेन्द्र कुशवाहा
UPENDRA KUSHWAHA



राज्य मंत्री
मानव संसाधन विकास
भारत सरकार
MINISTER OF STATE FOR
HUMAN RESOURCE DEVELOPMENT
GOVERNMENT OF INDIA

It is my pleasure to send my best wishes on the occasion of the 3rd World Summit on Accreditation being organised by National Board of Accreditation during 18th to 20th March, 2016 in Gurgaon.

I hope that the deliberations during the conference will facilitate in the exchange of ideas and practices in the field of accreditation across the world and delegates will come up with suitable recommendations to improve the quality of professional and technical education in our country in order to bring it at par with the global standards.

I wish the Summit a great success.

(UPENDRA KUSHWAHA)

New Delhi
February, 24th 2016

डॉ. वी.के. सारस्वत
Dr. V.K. Saraswat

सदस्य

Member

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नीति आयोग, संसद मार्ग
नई दिल्ली-110 001

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NATIONAL INSTITUTION FOR TRANSFORMING INDIA
NITI Aayog, Parliament Street
New Delhi-110 001



I am very happy to note that “National Board of Accreditation” is organising a conference on “Quality Assurance Through Outcome Based Accreditation”.

Under the “Make in India” programme, it is essential that our Country produces Quality products to become globally competitive. Cost and Quality are the two major factors which underpin the competitiveness. Quality does not come of its own. It requires attention right from design to production to marketing to after sales.

Today when all nations have to concentrate on sustainable manufacture and business processes, introduction of quality Culture at the “Technical education” level becomes most important.

I am happy to note that NBA is taking concrete steps for accreditation of programmes of Technical education.

I am hopeful and wish that the biennial conference ushers a new era in the Quality accreditation and assurance processes in our Country to take our manufacturing, service and agriculture sectors to the path of global competitiveness and make “Make in India’ programme a grand success.


(Dr. V.K. SARASWAT)

New Delhi
27.01.2016

वि. शी. ओबराय, भा.प्र.से.

V. S. OBEROI, I.A.S

सचिव

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Government of India

Ministry of Human Resource Development

Department of Higher Education

128-C Wing, Shastri Bhavan, New Delhi - 110 115

Dated : 17th February, 2016



It is, indeed, heartening to learn that the National Board of Accreditation is organising the **World Summit on Accreditation (WOSA-2016) during 18th – 20th March, 2016 at Leela Ambience Hotel, Gurgaon** on the theme of **“Quality Assurance through Outcome Based Accreditation”**.

The theme is of great significance globally in the context of trade and technical services across the world. The summit will facilitate knowledge and information sharing on best practices in accreditation vis-a-vis to improve quality of education through attainment of learning outcomes, industry expectations from academia, effective use of ICT in education and learning and thereby leading to quality assurance through outcome based education.

I am sure that the deliberations during WOSA-2016 shall bring forth new ideas, opportunities and challenges in professional education across the world.

My best wishes for the success of the Summit.

(V.S. Oberoi)



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अखिल भारतीय तकनीकी शिक्षा परिषद् ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(भारत सरकार का एक सांविधिक निकाय)
(A STATUTORY BODY OF THE GOVT. OF INDIA)

प्रो. अनिल डी. सहस्रबुद्धे
Prof. Anil D. Sahasrabudhe
अध्यक्ष
Chairman



There has been a phenomenal growth and development in technical education during the past two decades. There is a great deal of discussion about the quality of education, its measurement, especially in the context of higher educational institutions and programmes, introduction of newer disciplines, entry and operation of foreign institutions in a variety of forms and desire for global recognition through international accords. With significant expansion of higher educational institutions in India both publically and privately funded, a mandatory robust accreditation system is required that could provide a common frame of reference for students and other stakeholders to obtain credible information on academic quality across the institutions. AICTE has made NBA Accreditation mandatory for expansion in terms of seats in existing courses and addition of new courses.

I am delighted to know that National Board of Accreditation is organizing the **World Summit on Accreditation (WOSA - 2016)** during **18th - 20th March 2016** at **Leela Ambience Hotel, Gurgaon** on the theme of "**Quality Assurance through Outcome Based Accreditation**", and the Summit will be attended by about 800 delegates from India and abroad.

I am sure that the deliberations during the conference will bring forth new ideas and suitable recommendations leading to quality assurance through outcome based accreditation.

I wish the organizers a grand success in their endeavors.

(Prof. Anil D. Sahasrabudhe)



R. Subrahmanyam, IAS,
Additional Secretary (TE)



सूचना का
अधिकार



भारत सरकार
मानव संसाधन विकास मंत्रालय
उच्चतर शिक्षा विभाग
शास्त्री भवन
नई दिल्ली - 110 115
GOVERNMENT OF INDIA
MINISTRY OF HUMAN RESOURCE DEVELOPMENT
DEPARTMENT OF HIGHER EDUCATION
SHASTRI BHAVAN
NEW DELHI-110 115

I am glad to know that National Board of Accreditation is organizing the **World Summit on Accreditation (WOSA 2016)** during 18th-20th March, 2016 at Leela Ambience Hotel, Gurgaon on the theme of **"Quality Assurance through Outcome Based Accreditation"**.

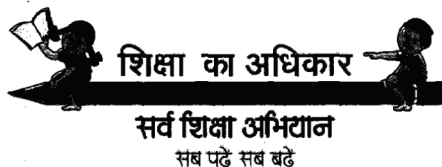
WOSA-2016 is expected to bring together a number of academicians associated with accreditation agencies from the signatories of the Washington Accord. The conference will facilitate free discussion on the processes, parameters and criteria for outcome based accreditation and thereby leading to quality assurance in the field of professional education across the world.

I extend my best wishes for the success of the Summit.


(R. Subrahmanyam)

New Delhi

February 15, 2016



NATIONAL BOARD OF ACCREDITATION

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Dr. Surendra Prasad

Chairman



World Summit on Accreditation (WOSA) is a biennial summit organised by NBA, which provides a platform to its stakeholders to share their knowledge and information on accreditation. WOSA-2016 is the third in the WOSA series with the theme **“Quality Assurance Through Outcome Based Accreditation”**.

The conference will facilitate knowledge and Information sharing on best practices in accreditation, which can significantly improve quality of education through attainment of learning outcomes, industry expectations from academia, an effective use of ICT in education and learning. This is the essence of Quality Assurance through Outcome Based Accreditation. The deliberations and global participation, especially from the signatories of Washington Accord in WOSA 2016 will bring new ideas and help in establishing new directions and identify new opportunities and challenges in professional and technical education world-wide. The conference is expected to be attended by about 800 delegates from across the world.

My best wishes to all the participants of the Summit for success in their mission of promoting quality and relevance of technical education.

A handwritten signature in blue ink, appearing to read 'Sprasad'.

March 10, 2016

(Surendra Prasad)



प्रो. एच. देवराज
उपाध्यक्ष

Prof. H. Devaraj
Vice-Chairman



सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग
University Grants Commission

(मानव संसाधन विकास मंत्रालय, भारत सरकार)
(Ministry of Human Resource Development, Govt. of India)

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Bahadur Shah Zafar Marg, New Delhi-110002

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फैक्स Fax : 011-23230406, e-mail : ugvcem@gmail.com



I am happy to learn that the National Board of Accreditation (NBA) is organizing the World Summit on Accreditation (WOSA 2016); the third in the WOSA series of biennial conferences during 18th – 20th March, 2016 on the theme "Quality Assurance through Outcome Based Accreditation" and that a souvenir is being brought out on this occasion.

The theme chosen for the conference is of topical importance. The productivity of our human resources depends on the quality levels maintained in institutions of higher education. Today, the biggest challenge faced by our higher education institutions is to maintain and promote the culture of quality. The commitment to a continuous quest for excellence shall prepare our institutions to overcome the challenges and ensure their place in the league of top-notch global institutions of higher education.

I congratulate the NBA for hosting the summit to debate and deliberate upon the crucial parameters for quality assurance. I am sure that the suggestions made and resolutions emerging from the summit shall set a new agenda for quality assurance for universities and institutions of higher education.

My best wishes to the organizers for the success of the Summit.

(H. DEVARAJ)



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अखिल भारतीय तकनीकी शिक्षा परिषद् ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(भारत सरकार का एक सांविधिक निकाय)
(A STATUTORY BODY OF THE GOVT. OF INDIA)

डॉ. अविनाश एस. पंत
Dr. Avinash S. Pant
उपाध्यक्ष
Vice Chairman



I am glad to know that National Board of Accreditation is organizing the 3rd World Summit on Accreditation. (WOSA 2016) during 18th-20th March, 2016 on the theme of "Quality Assurance through Outcome Based Accreditation".

The theme of the conference is of great significance in the context of trade and technical services and increasing student mobility world-wide. The conference will facilitate free discussion and information sharing on the parameters, processes and on the best practices in accreditation, effective use of ICT in education and learning and thereby leading to quality assurance through outcome based accreditation. The deliberations will bring new ideas and help in establishing new trends of identifying opportunities and challenges in professional and technical education World-Wide.

I wish the National Board of Accreditation and the delegates a successful Summit.

New Delhi

(Dr. Avinash S. Pant)

February 23, 2016



प्रो. रवि भूषण ग्रोवर
होमी भाभा चेयर
Prof. R.B. Grover
Homi Bhabha Chair



होमी भाभा राष्ट्रीय संस्थान

प्रशिक्षण विद्यालय परिसर, अणुशक्तिनगर, मुंबई-400 094, भारत

Homi Bhabha National Institute

Training School Complex, Anushaktinagar, Mumbai – 400 094, India

● Email : rbgrover@hbni.ac.in

It is a matter of pleasure for me to be writing a message for the Third World Summit on Accreditation (WOSA – 2016) to be held at Gurgaon during 18th – 20th March 2016. I participated in the second summit and am happy to note that the National Board of Accreditation is now moving on to the third summit in this series. I compliment them for the initiative and look forward to lively discussion during the summit.

As knowledge expands, new disciplines are emerging and at the same time boundaries between disciplines are getting blurred. Career options available to young professionals are increasing and so is the diversity of knowledge base required to excel in different careers. In this scenario, it is necessary for educationists to offer a wide portfolio of courses to students so that they can choose what excites them and follow their dreams. While doing so one has to maintain certain quality and at the same time ensure that outcome of an education programme is able to fulfill dreams of young students. Seen in this context, theme chosen for WOSA – 2016 is appropriate and I wish the conference a success.

(R. B. Grover)



सत्यमेव जयते

प्रो. देव प्रकाश अग्रवाल
Prof. D. P. Agrawal

भूतपूर्व अध्यक्ष
FORMER CHAIRMAN



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संघ लोक सेवा आयोग
UNION PUBLIC SERVICE COMMISSION
नई दिल्ली - 110 069
New Delhi - 110 069

There is a great deal of discussion at national and international levels about the various approaches to measure and ensure the quality of higher education. The accreditation process is a significant tool to evaluate the quality of higher educational institutions as a whole or of a specific programme, in order to formally recognise it as having met certain pre-determined minimal criteria or standards.

NBA works very closely with the stakeholders to ensure that the programmes serve to prepare their graduates with sound knowledge of fundamentals and to develop in them an adequate level of professional competence, such as would meet the needs of the technical profession locally as well as globally.

I am sure that the deliberations during the World Summit on the theme "**Quality Assurance through Outcome Based Accreditation**" at Gurgaon (Delhi NCR) during 18-20 March, 2016 will facilitate exchange of ideas and sharing of information at international level and pave way for evolving quality benchmarks in higher technical and professional education in the country.

I congratulate the delegates and the organisers of WOSA-2016 and wish the Summit a grand success

New Delhi
07-03-2015

Dev P Agrawal
(D.P. Agrawal)

Prof. R Natarajan
Former Chairman
AICTE, New Delhi



Dated: March 8, 2016

It is to the credit of our NBA that it has designed a thought-provoking Technical Program for the upcoming WOSA – 2016. The program features Keynote and Invited Lectures by National and International Speakers, and short contributed Papers which have undergone a detailed reviewer scrutiny. The Plenary Sessions will deal primarily with global best practices in accreditation, means to improve quality of education through attainment of learning outcomes, industry expectations from academia, effective use of ICT for education and learning overall leading to quality assurance through outcome based education.

After a series of internal discussions and Mentor interventions, NBA secured Washington Accord signatory status in June 2014. In view of their huge size and the consequent impact on the global system and the increasing importance of globalization, India and China cannot remain excluded from any global enterprise, and hence the efforts to assist them in modulating their quality assurance systems and processes to align with the international standards. A system as huge and diverse as ours exhibits several heterogeneities and quality standards, and the Washington Accord has prescribed that only institutions accredited by NBA in Tier I category can claim parity with other Washington Accord signatories. Tier I institutions are autonomous universities and college which have the freedom to introduce substantive quality enhancement measures, while Tier II institutions are the vast majority of institutions affiliated to a University, and hence are constrained from introducing independent changes, whether in curricula , pedagogy or examinations .

There are several global issues in accreditation and quality assurance, many of them peculiar and specific to individual countries, and with established traditions and practices. Indeed many countries have introduced internationally prevalent systems in their countries; such as for example, creating four –year undergraduate programs followed by two-year postgraduate programs, as in several countries in Europe. Indeed Europe has its own European Network for Accreditation of Engineering Education (ENAE) which awards EUR-ACE (EUROPEANACredited Engineer) in six countries.

Even though the avowed goal of Washington Accord is *Working Together to Advance Benchmarking and Mobility in the Engineering Profession*, there appears to be an increasing need for designing *global* engineering professional criteria for accrediting engineering program which will foster enhancement of the global mobility and licensing of engineers.

ABET being the pioneer in national accreditation systems and composed of 33 prestigious professional societies has undertaken a review of its criteria and will be finalizing revisions in June 2016, with corresponding changes in other systems.

NARAYANA MURTHY



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February 25, 2016

Education plays a pivotal role in nation building. Hence, we must aim at providing quality education to everyone. The role of accreditation process is significant in setting the standard for the quality of education. Accreditation works as a stamp of approval for enhancing the confidence to parents, students, employers, industry and the funding agencies. Therefore, the accreditation institutions should benchmark against the global best standards of international quality, continuously improve the standard, and conduct the assessment in the fairest and the most transparent manner by experts in the field.

I am happy with the role of NBA in discharging this responsibility through many initiatives like the WOSA series. I congratulate the entire NBA family on this occasion and wish them continued success in their endeavours.

A handwritten signature in black ink, appearing to be 'N. Murthy', written in a cursive style.

Narayana Murthy
Founder – Infosys Limited

Organizing Committee

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3rd World Summit on Accreditation (WOSA 2016)
 18th–20th March, 2016 at Hotel Leela Ambience, Gurgaon, Haryana
THEME: “Quality Assurance through Outcome Based Accreditation”

Programme Schedule

Spot Registrations/Distribution of Summit Kits <i>Venue:</i> Maple Room, Hotel Leela Ambience	18 th March 2016 from 14:00–18:00 19 th March 2016 from 08:30–10:00
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DAY 1 : 19th March 2016, Saturday

PLENARY SESSION–I (10:00 hrs to 11:15 hrs)

***Venue:* Pearl Ballroom**

Time	Event	Speaker
10:00–10:05	Welcome & Introduction of the Speakers	
10:05–10:20	Plenary Address 1 – Chairman	Padmashree Dr. M. Anandkrishnan Chairman, BOG, IIT Kanpur
10:20–10:35	Plenary Address 2	Dr. Michael K.J. Milligan Executive Director, ABET
10:35–10:50	Plenary Address 3	Prof. Kai Sang Lock Former Chairman, Engineering Accreditation Board, Singapore
10:50–11:05	Plenary Address 4	Shri Premkumar Seshadri Executive Vice-Chairman & Managing Director, HCL Infosystems
11:05–11:15	Question & Answer	
	Vote of Thanks	
11:15–11:45	<i>Tea Break</i>	

INAUGURAL FUNCTION (12:00 hrs to 13:00 hrs)

Pearl Ballroom, Hotel Leela Ambience

Time	Event	Speaker
12:00–12:05	Welcome & Invocation	
12:05–12:15	Welcome Address & Introduction to Summit	Prof. Surendra Prasad Chairman, NBA
12:15–12:25	Address by Guest of Honour 1	Prof. Anil Sahasrabudhe Chairman, AICTE

12:25–12:35	Address by Guest of Honour 2	Shri R. Subrahmanyam Additional Secretary, Human Resource and Development, GoI
12:35–12:55	Address by Chief Guest, Release of Souvenir	Smt. Smriti Zubin Irani Hon'ble Minister, Human Resource and Development, GoI
12:55–13:00	Vote of Thanks	Dr. Anil Kumar Nassa Member Secretary, NBA
13:00–14:00	<i>Lunch Break</i>	

TECHNICAL SESSION–I (14:00 hrs to 15:30 hrs)

THEME 1: Accreditation—Global Best Practices

Time	Event	Speaker
14:00–14:05	Welcome & Introduction of the Speakers	
14:05–14:20	Keynote - I	Prof. Ramamurthy Natarajan Former Chairman, AICTE
14:20–14:35	Keynote - II	Prof. Basil Wakelin Immediate Past Chair, International Engineering Alliance
14:35–14:50	Keynote - III	Prof. Elizabeth Taylor Deputy Chairman, Washington Accord
14:50–15:05	Keynote - IV	Prof. Malcolm J. Reeves Past Chair, Canadian Engineering Accreditation Board
15:05–15:15	Contributory Paper 1	Ms. Hannah Esther Manogaran Senior Quality Assurance Specialist, Oman Academic Accreditation Authority (OAAA), Muscat, Oman
15:15–15:25	Question & Answer	
15:25–15:30	Vote of Thanks	
15:30–16:00	<i>Tea Break</i>	

TECHNICAL SESSION–II (16:00 hrs to 17:30 hrs)		
THEME 2: Improving Quality through Attainment of Learning Outcomes		
Time	Session - II(A) (Engineering)	Session - II(B) (Management)
16:00–16:05	Welcome & Introduction of Speakers	
16:05–16:20	<i>Keynote - I</i> Prof. Robin King Emeritus Professor, Accreditation Visit Manager, Engineers Australia	<i>Keynote - I</i> Prof Furqan Qamar Secretary General & Member Secretary, Association of Indian Universities
16:20–16:35	<i>Keynote - II</i> Prof. David Cleland Chair, International Advisory Panel, Engineering Council (UK)	<i>Keynote - II</i> Prof. Prafulla Agnihotri Director, IIM, Trichy
16:35–16:50	<i>Keynote - III</i> Prof. Barbara Masi Director of Education, Innovation and Assessment Initiatives, University of Rochester	<i>Keynote - III</i> Dr. Bakul H. Dholakia Director General, International Management Institute, New Delhi
16:50–17:00	<i>Keynote - IV</i> Prof Ashok Saxena Provost and Vice Chancellor for Academic Affairs Distinguished Professor; University of Arkanses, USA	<i>Keynote - IV</i> Prof. S. G. Deshmukh Director, Indian Institute of Information Technology and Management, Gwalior
17:00–17:10	<i>Contributory Paper 1</i> Ms. Preetika Chandel Student, Computer Science and Engineering Department National Institute of Technology, Hamirpur	<i>Contributory Paper 1</i> Dr. Suresh Ramaswwamyreddy Professor, BMS College of Engineering, Bangalore
17:10–17:25	Question & Answer	
17:25–17:30	Vote of thanks	
17:30–18:30	Paper Presentation (Parallel Session)	
19:30 Onwards	Summit Dinner	

*** Day 1 Ends ***

DAY 2 : 20th March 2016, Sunday**PLENARY SESSION–II (09:00 hrs to 10:30 hrs)****Venue: Pearl Ball Room**

Time	Event	Speaker
09:00–09:05	Welcome & Introduction of Speakers	
09:05–09:25	Plenary Address 1 - Chairman	Prof D.P. Agarwal Former Chairman, UPSC
09:25–09:40	Plenary Address 2	Prof. Raman M. Unnikrishnan Dean & Professor, Fellow, IEEE, California State University
09:40–09:55	Plenary Address 3	Prof. Jung Soo Kim Senior Vice President, Accreditation Board for Engineering Education of Korea
09:55–10:10	Plenary Address 4	Padamshree Dr. R. B. Grover Vice Chancellor, HBNI, Nagpur
10:10–10:25	Question and Answer	
10:25–10:30	Vote of Thanks	
10:30–11:00	<i>Tea Break</i>	

TECHNICAL SESSION–III (11:00 hrs to 12:15 hrs)**THEME 3: Technical Education – An Indian Perspective**

Time	Event	Speaker
11:00–11:05	Welcome & Introduction of Speakers	
11:05–11:20	Keynote - I	Shri R. Subrahmanyam Additional Secretary (TE), MHRD
11:20–11:35	Keynote - II	Prof. Anil D. Sahasrabudhe Chairman, AICTE
11:35–11:50	Keynote - III	Prof. Ved Prakash Chairman, UGC
11:50–12:05	Keynote - IV	Prof. Surendra Prasad Chairman, NBA
12:05–12:15	Question & Answer	
	Vote of Thanks	

TECHNICAL SESSION–IV (12:15 hrs to 13:30 hrs)		
THEME 4: Industry Expectations from Academia		
Time	Event	Speaker
12:15–12:20	Welcome & Introduction of speakers	
12:20–12:35	Keynote - I	Shri Yogi Sriram Senior VP, Corporate HR, Larsen & Toubro
12:35–12:50	Keynote - II	Prof. B.B. Ahuja Director, College of Engineering, Pune
12:50–13:05	Keynote - III	Lt Gen (Dr) S.P. Kochhar AVSM, SM, VSM (Retd) CEO, Telecom Sector Skill Council
13:05–13:20	Keynote - IV	Dr. B.N. Suresh President, Indian National Academy of Engineering
13:20–13:30	Question & Answer	
	Vote of Thanks	
13:30–14:30	Lunch Break	

TECHNICAL SESSION–V (14:30 hrs to 16:00 hrs)		
THEME 5: Effective Use of ICT for Education and Learning		
Time	Event	Speaker
14:30–14:35	Welcome & Introduction of speakers	
14:35–14:55	Keynote - I	Prof. Seeram Ramakrishna Vice President, Research Strategy, NUS, Singapore
14:55–15:15	Keynote - II	Shri Suresh Mhatre Former Vice President, TCS
15:15–15:35	Keynote - III	Padamshree Prof. Deepak Phatak Computer Scientist, IIT Bombay
15:35–15:45	Contributory Paper 1	Prof. Anil Chaudhary Professor, Swami Keshvanand Institute of Technology, Management & Gramothan, Rajasthan
15:45–15:55	Question & Answer	
15:55–16:00	Vote of Thanks	

Valedictory Function (16:00 hrs to 16:40 hrs)		
Venue: Pearl Ballroom, Hotel Leela Ambience		
Time	Event	Speaker
16:00–16:05	Welcome & Introduction of speakers	
16:05–16:10	Summit Summary	Dr. Avichal Kapur Homi Bhabha National Institute, Nagpur
16:10–16:15	Address by Guest of Honour 1	Shri R. Subrahmanyam Additional Secretary, Human Resource and Development, GoI
16:15–16:20	Address by Guest of Honour 2	Prof. Anil Sahasrabudhe Chairman, AICTE
16:20–16:30	Address by Chief Guest	Shri M.K. Kaw Former Secretary (HE), MHRD, GoI
16:30–16:35	Concluding Remarks	Prof. Surendra Prasad Chairman, NBA
16:35–16:40	Vote of Thanks	Dr. Anil Kumar Nassa Member Secretary, NBA
16:40	National Anthem	
16:40	<i>Tea</i>	

*** *Summit Concludes* ***

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