



King Abdulaziz University

Under the Patronage of University President
Prof. Abdulrahman Obaid Al-Youbi

11th SCIENTIFIC FORUM

FOR KING ABDULAZIZ UNIVERSITY STUDENTS

**Guide
Manual**



Guide Manual to the 11th Scientific Forum for Students of King Abdulaziz University

Forum Date

20–22 Rajab 1441 H

15–17 March 2020 G

Closing Ceremony

27 Rajab 1441 H

22 March 2020 G

Submission Dates

30 Muharram – 28 Jumada II 1441 H

2 September 2019 – 22 February 2020 G

Preface

Praise be to Allah alone and peace and blessings be upon the final prophet.

Developed nations are aware of the need for scientific research that is becoming more important than ever. The world is in real competition to acquire all possible accurate and fruitful knowledge in all aspects of life to ensure the prosperity and well-being of mankind. Nations and governments also recognize the importance of scientific research and the great role it plays in the progress and development of nations. Accordingly, they pay great attention to scientific research and facilitate all means to enroll it in its national economy and future developments.



King Abdulaziz University believes in the importance of developing the skills of students, exploring their potentials and abilities, encouraging their ambitions, and enriching them both scientifically and culturally. Our goal is to motivate our students to be the cornerstone of a fruitful achievement in the national and international developments in various scientific fields. This is the reason why King Abdulaziz University is keen to establish and maintain this scientific forum every year, as a contribution to support the knowledge-based economy and to encourage researchers to strengthen their contributions to the ongoing developments and the accelerating changes in order to achieve the Saudi Vision 2030 and its national higher education strategy.

I find this as an opportunity to invite all faculty members and students to positively engage in this scientific forum and to invest their time and effort in promoting scientific research and creativity, which will highly impact the future of our beloved country.

I would like to express my sincere thanks and gratitude to the leader of our march, the Custodian of the Two Holy Mosques, King Salman Bin Abdulaziz and his Crown Prince, Prince Mohammed Bin Salman for their continuous care for the university and its various sectors. I would also like to extend my thanks to the fellow members of the scientific and organizing committees of the forum for their blessed efforts.

President of King Abdulaziz University

Prof. Abdulrahman Obaid Al-Youbi

Preface

Praise be to Allah, Lord of the Worlds, and peace and blessings be upon the Messenger of Allah and his family and companions.

King Abdulaziz University has been hosting this scientific forum for its students every year, which has left a great imprint and resonance in the history of scientific events at the university. The forum is directed towards the most important category of the university, its undergraduate and postgraduate students. The forum offers a golden opportunity to meet annually in a competitive scientific meeting, in which they present their research findings, gain experience, and exchange constructive ideas.



King Abdulaziz University has taken great steps in the development of the scientific research process, where the previous 10 successive forums have achieved the ambitious objectives. These objectives include increasing the awareness of the importance of scientific research among students, providing students with the knowledge of scientific research tools and methods, and enhancing the scientific sense of students. This has resulted in an active participation of students in different national competitions, which is an inevitable result of the fine policies and wise plans set by the university administration and its unlimited support for all aspects of the scientific research process.

The University has been and continues to be the leader in the fields of knowledge and scientific research in the region. Since its establishment, the university has given scientific research all care and attention and provided all resources to develop and spread its culture among students. This has led to the current distinguished status the university and its recognized rank both nationally and internationally.

Finally, I would like to express my thanks and gratitude to the organizing committees of the forum for their efforts, wishing the best for all.

Head of Supervising Committee

Prof. Abdulmonem Abdul Salam Al-Hayani

Preface

Creating an efficient university student is a difficult task and an integral process, in which the efforts of faculties, staff members, as well other administration sectors in the university contribute to enhancing the student's research, intellectual, and ethical skills. Hence the importance of spreading the awareness among students of the vital role of scientific research and innovation in the future.



The previous series of scientific forums, held at the university, have received great attention and produced concrete academic outputs, mainly due to the continuous support received from the university administration. Preparations for the current scientific forum began long time before it is held with coordination of efforts and joint work among the different committees of the forum. The support of deanships, faculties and various departments has a great impact on the success of the forum. Moreover, the concrete planning of peer-reviewing process, technical issues, and logistics help creating appropriate environment for the different activities of the forum.

We hope that this year's forum will witness the presence and active participation of young men and women in presenting their projects, attendance as well as accompanying events. We also hope to reach a record submission that reflects the uprising of scientific research activities witnessed by King Abdulaziz University.

Head of Executive Committee

Dr. Masoud Mohammed Al-Qahtani

Preface

Praise be to Allah, Lord of the Worlds, and peace and blessings be upon the noblest of prophets and messengers.



Nations are rising and taking part in leading humanity's walk towards the future only with useful modern science, serious research and hard work. This fact has become more evident than ever in present time because of the fast rhythm of change of everything around us. These vast and fast changes push all humanity into dark unknown future; except for those who embrace state-of-the-art science and follow up its development and evolution. Knowing that two-thirds of those who will be born in the next five years will work in jobs that we know nothing about should motivate us to do more for future generations. We should integrate all our accumulated experiences from the past with our realistic perception of the present and conscious outlook for the future in order to ensure that our sons and daughters have a decent place in the future of humanity. A place that enables them to carry on the hike towards development and to protect the resource of this country and explore its future capabilities.

That's why we should adjoin our efforts to guarantee an imminent success of the 11th Scientific Forum at King Abdul Aziz University, which is an extension of the previous ones. These forums combine the ambitious and creative ideas and innovative thinking of young students with the scientific expertise and insight of academic staff to produce a group of distinguished modern scientific research. This disciplined academic process paves the road for our young men and women to be a part of a bright future for their country and their community.

Many thanks and appreciation to everyone who contribute to the success of this forum and sincere gratitude and respect for every drop of sweat that has been dropped for the success of the 11th Scientific Forum at King Abdulaziz University.

Head of Scientific Committee

Prof. Iqbal Mohammed Ibrahim Ismail

Introduction:

The Saudi Vision 2030 has adopted the National Transformation Program as a method and a roadmap for future economic and developmental strategies. The vision encourages development of talents and supports innovation in a way that enables the Kingdom of Saudi Arabia to become a role model in different aspects. Accordingly, the main themes of the scientific forum for students of King Abdulaziz University are modified to be in line with the requirements of this stage. The major goal of the current forum is to achieve efficiency and effectiveness and to develop the sense of creativity and responsibility among students, leading to a prosperous future and sustainable development.

Vision:

The Scientific Forum for King Abdulaziz University Students becomes the most competitive and attractive annual scientific event for student's innovations.

Mission:

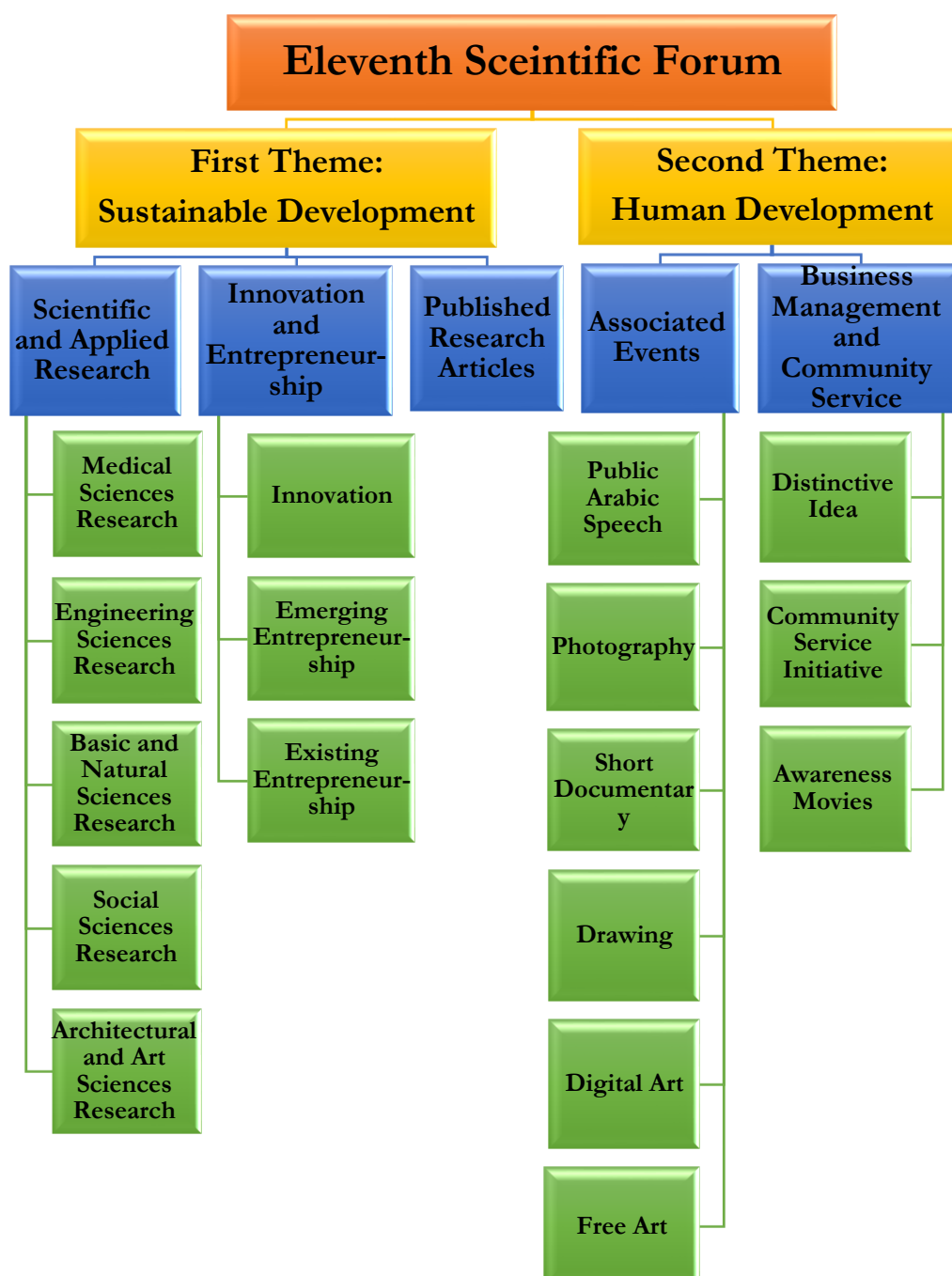
Pursue planning, developing and implementing programs that motivate students to participate in novel research projects and creative works that highlight and refine their talents in order to contribute to developing our country, and serving our community.

Goals:

- Spreading the culture of sustainable development among students through scientific research, creativity and innovation.
- Enhancing personal skills of students and encouraging them to get involved in distinguished pioneer work, original projects, entrepreneurship and bright arts and media.
- Providing an opportunity to highlight talents and enrich the academia by displaying and disseminating scientific, creative, innovative and pioneering productions of students.
- Developing leadership and dialogue skills among students.
- Promoting research, creative and national values via honest scientific competition, teamwork and building bridges of scientific communication.

Forum Themes

For the scientific forum to achieve its ambitious goals and disseminate its benefits to all sectors of the university, the forum is divided into two main themes, Sustainable Development and Human Development. Each theme comprises a range of different categories, where the Sustainable Development Theme includes three areas: Scientific and Applied Research, Innovation and Entrepreneurship and Published Research Articles. The Human Development Theme includes two categories: Business Management and Community Service and Associated Events. Thus, each category involves a number of different tracks based on nature of each field. The following figure shows the structural structure of the themes of the 11th Scientific Forum and its different themes, categories and tracks:



First Theme: Sustainable Development

Sustainable development is a conscious, goal-oriented process with a long-term strategy, aware of and committed to societal goals. It has the capacity to effectively use the society resources in a manner that maintains the integration and compatibility between environment and development; for better living standards and higher quality of life. Vision 2030 supports the investment in education, training, research and skills acquisition and focuses on innovation in advanced technologies and entrepreneurship. The Sustainable Development Theme is divided into 3 categories as follows:

First Category: Scientific and Applied Research

Participation in this category is through several branches based on the scientific disciplines, as follows:

1) Medical Sciences Research

This branch includes all researches related to human health and supporting health sectors such as of medicine, dentistry, pharmacy, applied medical sciences, nursing and other medical disciplines. Faculties whose students can submit their research under this branch are:

- Faculty of Medicine
- Faculty of Dentistry
- Faculty of Pharmacy
- Faculty of Applied Medical Sciences
- Faculty of Nursing
- Faculty of Medical-Rehabilitation

2) Engineering Sciences Research

This branch covers all disciplines of engineering, such as; different disciplines of engineering, computer science, information technology and includes students from the following faculties:

- Faculty of Engineering
- Faculty of Computing and Information Technology
- Engineering and Computer Sciences Departments in other faculties

3) Basic and Natural Sciences Research

A branch that encompasses all basic sciences such as chemistry, biology, physics, mathematics, astronomy, earth sciences, climate, marine-related science and agriculture. It includes students from the following faculties:

- Faculty of Sciences
- Faculty of Earth Sciences
- Faculty of Marine Sciences
- Faculty of Maritime Studies
- Faculty of Meteorology, Environment and Arid Land Agriculture

4) Social Sciences, Humanities and Administrative Sciences Research

This branch includes all humanities and social sciences such as Islamic law, literature, Arabic language, management sciences, economics, social sciences, law and media. Faculties whose students can submit their research under this branch are:

- Faculty of Arts and Humanities
- Faculty of Economics and Administration
- Faculty of Home Economics
- Faculty of Law
- Faculty of Communication and Media
- Jeddah Community College
- Faculty of Tourism
- Faculty of Educational Graduate Studies
- Arabic Language Institute for Speakers of Other Languages
- Islamic Economics Institute
- Prince Khalid Al-Faisal Institute for Moderation
- English Language Institute

5) Architectural and Art Sciences Research

This branch covers architectural sciences and their applications, architectural design, urban and regional planning, environmental planning and transportation planning. Faculties whose students can submit their research under this branch are:

- Faculty of Environmental Design
- College of Art and Design
- Design Departments in other faculties

Second Category: Innovation and Entrepreneurship

Innovation is the process of transforming an idea into goods and services that represent an added value. It is based on the development of an existing product or process to provide better service. It is also the application of the most successful solutions that meet the new and unspoken needs, or the need of existing and emerging markets. The relationship between innovation and entrepreneurship is a mutually beneficial relationship. Entrepreneurs need to be open to change as they are the tool that innovators need to bring their ideas to market. For these reasons, the skills, abilities and ideas of our students are among the most valuable resources of our country and society. The Kingdom's Vision 2030 seeks to make the most of the potential of students and to attract and support their innovations in advanced technologies and entrepreneurship. All students are eligible to participate in this category through one of the following branches:

- Innovation
- Emerging entrepreneurial projects
- Existing entrepreneurial projects

Third Category: Published Research Articles

This category is concerned with presenting the results of research articles, published in peer-reviewed journals for all academic disciplines at the university. It aims to develop students' skills in presenting their research results for large audiences. Participations are

accepted according to the nomination of faculties. Awards are presented for researches that provide new results and enrich the principle and applied knowledge in their field.

Second Theme: Human Development

Humans are the key factor of progress and development. Consequently, development of humans' physical, psychological, moral and scientific aspects is vital for a bright future, as these elements represent the major axes on which human life and future are based. The Kingdom's Vision 2030 calls for consolidating positive values and acquiring knowledge, skills and good behaviors. This should lead to a student with independent personality characterized by initiative, perseverance, leadership and creativity, and has sufficient self-awareness as well as social and cultural responsibilities. From this standpoint comes the focus of this theme with its both categories as follows:

First Category: Business Management and Community Service

Activating the societal role of qualifying, training and upgrading the national cadres is very important as it reflects the interest in investing in the human element, preparing the future leaders and establishing their positive values. The most important of these values are perseverance, initiative and creativity, that help meeting the current societal and national needs. This category targets innovative ideas generated from either individual or collective initiatives. The goal of this category is to convert these ideas into reality so that they have a sustainable social development impact on raising public awareness and disseminating knowledge in all community issues. All students are eligible to participate in this category through several tracks as follows:

- Distinctive Idea
- Community Service Initiative
- Awareness Movies Related to Community Service

Second Category: Associated Events

The objective of this category is to enhance the students' scientific capabilities via entertainment and to enhance the manual, dialogue and leadership skills that are among the most important pillars of the Kingdom's Vision 2030. All students are eligible to participate in this category through several tracks as follows:

- Public Arabic Speech
- Short Documentary
- Drawing
- Digital Art
- Photography
- Free Art

Terms and Conditions (1441 H)

1. All submitted materials should comply with the Islamic principles, values, rules and regulations as well as the traditions of the Kingdom of Saudi Arabia.
2. The contents of the submitted materials should not contradict the objectives of King Abdulaziz University and the Ministry of Education.
3. The submitted subject of participation should fall into one the forum themes, categories, and tracks.
4. Submitted materials should fulfill the specified terms and conditions of each category.
5. Submitted materials should present the original thought and work of the participant and should comply with all general ethical and copyright rules.
6. Submitted materials should not have been published or accepted for publication in any national or international journal or conference. Participation in journals, forums and conferences in King Abdulaziz University as well as submissions to the Category of Published Research Articles are exempted from this condition.
7. Submitted materials should not have previously received any local, regional or international awards.
8. The author must be a registered undergraduate or postgraduate student at King Abdulaziz University for the current academic year (1441 H) or freshly graduated during the second or summer semester of last academic year (1439/1440 H).
9. In case of multiple authors, the corresponding author should submit a statement that contains the names of all coauthors and their consent to the submission of the work.

Important Notes

1. The Faculty Coordinator is responsible for reviewing and auditing all personal information entered by the participant and has the right to accept or reject submission based on the correctness of the information and the fulfillment of theme conditions.
2. Submissions will be subjected to plagiarism check and strict peer-reviewing process by specialists. Violations to copyrighting and ethics shall result in severe punishments including blacklisting, withdrawal of awards, and trial by University Disciplinary Committee.
3. Submission deadline by students, and final confirmation by their faculty coordinators is Saturday 28 Jumada II, 1441 H.
4. Each student is eligible to maximum of 2 submissions. However, students can participate in any of the Associated Events, with 2 or less submission within the same field.
5. The number of coauthors for any submission is a key factor in evaluating the submission.
6. All correspondence and inquiries are directed to the corresponding author.
7. Plagiarism should not exceed 20% for undergraduate students and 10% for postgraduate students, excluding references.
8. The peer-reviewing and awards distribution processes have 2 separate tracks for undergraduate and postgraduate students. However, in case of a submission of mixed tracks, the postgraduate reviewing standards and rules will be applied.
9. Except for the Public Arabic Speech, students are free to choose their research topic, artwork, or the topic of any activity in which he/she participates.

Guidelines for Participation in Different Themes

First Theme: Sustainable Development

First Category: Scientific and Applied Research

The submitted manuscript should agree with the general conditions and basic characteristics of scientific research, and falls within one of the following scientific tracks:

- 1) Health Sciences.
- 2) Engineering and Technical Sciences
- 3) Basic and Natural Sciences
- 4) Social Sciences, Humanities and Management
- 5) Architectural and Art Sciences

Conditions and Specifications for Scientific and Applied Research:

1. The manuscript should follow the basic rules of scientific research, especially with regard to correct scientific referencing.
2. The manuscript can be written in either Arabic or English but must be written in a correct sound language.
3. A cover page should contain the following items: title, name(s) of author(s), their university ID number(s), faculty and department. The name(s) of supervisor(s) and their scientific rank(s), and affiliation(s) should be submitted in a separate sheet.
4. An abstract with no more than 200 words should be submitted separately and should not have the author name(s) or affiliation(s). The abstract should present a research introduction, problem definition, research approach, results and conclusions, and study recommendations.
5. Manuscript should not exceed 20 pages including references, appendices and figures, and should include the following: Title page (with only title), the abstract (in a separate page), introduction, problem definition, study objectives, materials and methods, discussion, recommendations, references and indices. Manuscript should not refer in any way for the author(s), supervisor(s), or their affiliation(s).
6. For manuscripts submitted in English, an Arabic translation of the abstract should be included.
7. A manuscript should be written in Word, A4 size pages, with line separation of one and a half, wide margins of 2.5 cm in all directions, and pages should be numbered. Arabic manuscripts should use Traditional Arabic, size 16, while English manuscripts should use Times New Roman, Size 14.

Second Category: Innovation and Entrepreneurship

The submission should fall within one of the following tracks:

- 1) Innovation.
- 2) Emerging entrepreneurial projects
- 3) Existing entrepreneurial projects

Conditions and Specifications for Innovation:

1. Originality, novelty and seriousness of innovation.
2. Technical details of innovation.
3. Existence of a prototype.
4. For reports submitted in English, an Arabic translation of the abstract should be included.
5. A cover page containing the title, track, and category of the submission in addition to authors' name(s), university ID number(s), and affiliation(s), should be uploaded separately.
6. An abstract with no more than 250 words should be submitted separately and should not have any reference to the author name(s) or affiliation(s).
7. The report should not exceed 22 pages including references, appendices and figures. and should include the following: Title page (with only the innovation title), the abstract (in a separate page), introduction, idea of the innovation or product, its detailed description, targets, benefits, and technical details. The previously mentioned items should be organized in a logic manner. Manuscript should contain colored high-resolution images of all figures and illustrations and could be written in either Arabic or English.
8. The report should be written in Word, A4 size pages, with line separation of one and a half, wide margins of 2.5 cm in all directions, and pages should be numbered. Arabic manuscripts should use Traditional Arabic, size 16, while English manuscripts should use Times New Roman, Size 14.
9. When available, patent certificate should be submitted with the manuscript.

Conditions and Specifications for Entrepreneurship:

1. Entrepreneurship should have an original and novel idea or a major development of an existing one.
2. It should be a pioneer entrepreneurship and relevant to the knowledge-based economy.
3. Entrepreneurship should be applicable and marketable within the Saudi Community.
4. Submission should not have received financial support from any donor outside the university or there are rights in the project for any other party. In this case, a letter of approval from the donor to participate in the forum must be submitted.
5. Student must submit a documented proof of his/her contribution, ownership or basic participation in the project.
6. Submission should not have been presented at any previous conference in its present form.
7. Ideas and preliminary proposals are not acceptable. Submission must be in the form of a detailed report with a concrete work plan explaining the project, its capital, number of employees and its applicability, along with a study of its economic feasibility, revenue generation, future financial and marketing forecasts, social project impact, and timetable. In case of multiple authors, the role of each team member in the project should be explained in detail.

8. A cover page containing the project title, the authors' name(s), their university ID number(s), and affiliation(s), should be uploaded separately.
9. An abstract with no more than 250 words should be submitted separately and should not have any reference to the author name(s) or affiliation(s).
10. The report should not exceed 22 pages including all items mentioned previously in section 7 and could be written in either Arabic or English.
11. The report should be written in Word, A4 size pages, with line separation of one and a half, wide margins of 2.5 cm in all directions, and pages should be numbered. Arabic manuscripts should use Traditional Arabic, size 16, while English manuscripts should use Times New Roman, Size 14.
12. For reports submitted in English, an Arabic translation of the abstract should be included.
13. Student should submit a sample of the project outputs (logo, products, samples) and information about the project (brochures, advertisement materials) to be displayed in the forum exhibition.

Third Category: Published Research Articles

The submission to this category can be for any research paper published in a peer-reviewed journal in all disciplines.

Conditions and Specifications for Published research

1. The research article should have been published in a peer-reviewed journal.
2. The student has the right to submit one research paper only.

Second Theme: Human Development

First Category: Business Management and Community Service

A submission for this category should fall into one of the following tracks:

- 1) Distinctive Idea
- 2) Community Service Initiative
- 3) Awareness Movies for Community Service

Conditions and Specifications for Distinctive Idea

1. The idea should be novel, creative, and serves community issues.
2. The idea should be applicable and can be transformed into a practical model that is marketable in the Saudi Community.
3. A full report should be written in decent language, with no more than 20 pages. The report should contain a cover page with the project title followed by a summary page, and then the report elements. The report should not have any reference to the author name(s) or affiliation(s) and can be written in either Arabic or English.
4. The report should be written in Word, A4 size pages, with line separation of one and a half, wide margins of 2.5 cm in all directions, and pages should be numbered.

Arabic manuscripts should use Traditional Arabic, size 16, while English manuscripts should use Times New Roman, Size 14.

5. An abstract with no more than 250 words should be submitted separately.
6. For reports submitted in English, an Arabic translation of the abstract should be included.

Conditions and Specifications for Community Service Initiative

1. The initiative should be novel, creative, with new ideas or major development of old ones.
2. The initiative should target an important social issue
3. The initiative should have already been applied, transformed into a working model and marketed.
4. If the initiative has received financial support from any donor outside the university or there are rights in the project for any other party, a letter of approval from the donor to participate in the forum must be submitted.
5. A full report should be written in decent language, with no more than 20 pages. The report should contain a cover page with the project title followed by a summary page, and then the report elements. The report should not have any reference to the author name(s) or affiliation(s) and can be written in either Arabic or English.
6. The report should be written in Word, A4 size pages, with line separation of one and a half, wide margins of 2.5 cm in all directions, and pages should be numbered. Arabic manuscripts should use Traditional Arabic, size 16, while English manuscripts should use Times New Roman, Size 14.
7. An abstract with no more than 250 words should be submitted separately.
8. For reports submitted in English, an Arabic translation of the abstract should be included.

Conditions and Specifications for Awareness Movies for Community Service

1. The movie should present a topic of social importance, carry the idea of awareness and value, and offers a distinctive content. It also should open constructive debates and questions and based on sound scientific background.
2. The movie should attract the audience's attention through its imaging, subject and sound, and stimulate viewers' critical and comprehensive thinking.
3. The movie should present the facts neutrally without giving personal opinions.
4. The information in the movie should not deviate from reality and should have minimal distortion or exaggeration.
5. Images of and audios of the movie should not violate the provisions of Islamic law and its regulations.
6. The maximum length of the movie is 5 minutes.
7. Submission should include a single page description of the movie including main idea, objectives, summary of the movie and its duration. The description should be written in Arabic using Traditional Arabic font, Size 16, with single spacing and submitted as Word and Adobe Acrobat version.
8. In case of nomination, the movie will be shown in the forum exhibition.

Second Category: Associated Events

The participation should fall within one of the following tracks:

- 1) Public Arabic Speech
- 2) Short Documentary
- 3) Drawing
- 4) Digital Art
- 5) Photography
- 6) Free Art

Conditions and Specifications for Public Arabic Speech

1. Commitment to the rules of Arabic language.
2. Consistency, clarity and smooth flow of ideas.
3. Elegance and exclusivity of language without exaggeration.
4. Citation of at least one of Quran, Sunnah, Arabic poetry and proverbs.
5. Personal imprint of the participant should be clear in the subject.
6. Using different voice tones based on the topic sections.
7. Gesturing the topic using facial expressions and body language.
8. The talk should not exceed 7 minutes.
9. Topics should be preapproved by the forum committee.

Conditions and Specifications for Short Documentary

1. The movie should present a topic of social importance, carry the idea of awareness and value, and offers a different content. It also should open constructive debates and questions and based on sound scientific background.
2. The movie should attract the audience's attention through its imaging, subject and sound, and stimulate viewers' critical and comprehensive thinking.
3. The movie should present the facts neutrally without giving personal opinions.
4. The information in the movie should not deviate from reality and should have minimal distortion or exaggeration.
5. Images of and audios of the movie should not violate the provisions of Islamic law and its regulations.
6. The maximum length of the movie is 5 minutes.
7. The movie should not have any reference to the students or his/her affiliation.
8. Participant should send a high-quality copy of the documentary in MOV, AVI or MP4 format. Documentary title, student name and affiliation should be written on the beginning of the documentary.
9. Submission should include a single page description of the documentary including the main idea, objectives, summary and duration. The description should be written in Arabic using Traditional Arabic font, Size 16, with one and half spacing using MS Word.

Conditions and Specifications for Drawing

1. The drawings should be made on paper using pencils, charcoal, Chinese ink, colored pens or any of these materials combined.
2. Drawings must be on A3 or A4 paper size plus or minus 5 cm before framing.
3. Drawings should be framed with a black or wooden frame.

4. A single page describing the theoretical, intellectual and cultural background of the artwork should be submitted. It should not exceed 200 words and contains the title, concept and objectives of the artwork.
5. The artwork should not violate the provisions of the Islamic Law and regulations.
6. Signature of the artist should be written on the back rather than the front of the artwork.

Conditions and Specifications for Digital Art

1. The artwork should be printed with permanent ink on an appropriate material.
2. Artwork must be on A3 or A4 paper size plus or minus 5 cm before framing.
3. Artwork should be framed with a black or wooden frame or any hangable material.
4. A single page describing the theoretical, intellectual and cultural background of the artwork should be submitted. It should not exceed 200 words and contains the title, concept and objectives of the artwork.
5. The artwork should not violate the provisions of the Islamic Law and regulations.
6. Signature of the artist should be written on the back rather than the front of the artwork.

Conditions and Specifications for Photography

1. Photographs should be printed on an appropriate material with size less than A2.
2. Photographs should not be processed or altered using computer software.
3. Photographs should have no text, such as date, signature or name.
4. Photographs should be framed with a black or wooden frame.
5. A 200 words description of the theoretical, intellectual and cultural background of the artwork should be submitted. It should contain the title, concept and objectives of the artwork.
6. The artwork should not violate the provisions of the Islamic Law and regulations.
7. Signature of the artist should be written on the back rather than the front of the artwork.

Conditions and Specifications for Free Arts

1. The artwork should be executed using appropriate material and can be presented in 2D or 3D forms.
2. A single page describing the theoretical, intellectual and cultural background of the artwork should be submitted. It should not exceed 200 words and should contain the title, concept and objectives of the artwork.
3. The artwork should not violate the provisions of the Islamic Law and regulations.
4. Signature of the artist should be written on the back rather than the front of the artwork.

Forum Exhibition Guidelines

1. Oral Presentation of Scientific Research

Oral presentation should be presented as MS PowerPoint presentation and should be prepared according to the following guidelines:

1. Use the presentations template of the forum (Click [here](#) to download template).
2. Save a copy of the presentation on flash memory (USB) and bring it on the day of presentation.
3. Include the logo of King Abdulaziz University and the slogan of the 11th Scientific Forum in the first page of the presentation.
4. Start your presentation with a slide that includes the title, authors, supervisors, and their affiliation. This slide should clearly show that the presentation is intended for the Eleventh Scientific Forum.
5. Make sure your presentation contains important elements such as; Introduction, Problem Definition, Objectives, Materials and Methods, Study Approach, Discussion, Recommendations, and References.
6. Summarize information so that your presentation is intensive, focused and covers all aspects of your research.
7. Write short and concise legend for figures and tables, including necessary information only.
8. Maintain a reasonable proportion and correlation between the images, shapes and text in your presentation.
9. Choose text size and color and background colors wisely to ensure visibility and clarity of your presentation.
10. Use animation and include multimedia creatively.
11. Backup your presentation on another storage media in case of emergency.
12. Be in the session before the scheduled time of your presentation.
13. Save all presentation items (attachments, audio, pictures, short video, logo ...) in one folder.
14. Deliver the presentation to the scientific committee of the forum, at least 72 hours before the presentation time.
15. Presentation time must not exceed 10 minutes.
16. Send your presentation to the forum's email address (ssf@kau.edu.sa).
17. The subject of the email message should be written as follows:

Oral Presentation of Student:, In Theme: ..., Title: ..., Registration No.: ...

2. Poster of Scientific Research

Posters are displayed during the forum exhibition on LED's. Corresponding author must be present next to the poster during the pre-defined judgment times according to the schedule of the forum. Posters should be prepared according to the following guidelines:

1. Use the poster template of the forum (Downloaded template from forum website).
2. Include the title, all authors and supervisors, and their affiliation in your poster.
3. Include the logo of King Abdulaziz University at the top of the poster to the right, and the slogan of the 11th Scientific Forum to the left.
4. Download and activate the image export resolution of PowerPoint.
5. Export your PowerPoint file into image.
6. Save a copy of your poster on a flash memory (USB) and bring it with you on the poster day.
7. Make sure your poster contains important elements such as; Introduction, Problem Definition, Objectives, Materials and Methods, Study Approach, Discussion, Recommendations, and References.
8. Summarize information so that your poster is intensive, focused and covers all aspects of your research Write short and concise legend for figures and tables, including necessary information only.
9. Write short and concise legend for figures and tables, including necessary information only.
10. Maintain a reasonable proportion and correlation between the images, shapes and text in your poster.
11. Backup your poster on another storage media in case of emergency.
12. Be in the session before the scheduled time of your poster.
13. Deliver the poster to the scientific committee of the forum, at least 72 hours before the poster time.
14. Send your poster to the forum's email address (ssf@kau.edu.sa).
15. The subject of the email message should be written as follows:

Poster of Student: ..., In Theme: ..., Title: ..., Registration No.: ...

3. Poster of Innovation

Innovation posters are displayed during the forum exhibition on LED's. Corresponding author must be present next to the poster and with the prototype during the pre-defined judgment times according to the schedule of the forum. Innovation posters should be prepared according to the following guidelines:

1. Use the poster template of the forum (Downloaded template from forum website).
2. Include KAU logo and forum slogan in your poster.
3. Export your PowerPoint file into image.
4. Save a copy of the poster on flash memory (USB) and bring it on the day of exhibition.
5. Include the title, all authors and supervisors, and their affiliation in your poster
6. Make sure your poster contains important elements such as; Introduction, Problem Definition, Objectives, Materials and Methods, Study Approach, Discussion, Recommendations, and patent certificate, if you have it.
7. Summarize information so that your poster is intensive, focused and covers all aspects of your research.
8. Write short and concise legend for figures and tables, including necessary information only.
9. Maintain a reasonable proportion and correlation between the images, shapes and text in your presentation.
10. Use appropriate fonts and text size with suitable background.
11. Time allowed to present your innovation is 7 minutes.
12. Backup your poster on another storage media in case of emergency.
13. Be in the session before the scheduled time of your poster.

4. Oral Presentation of Entrepreneurship

Oral presentation should be presented as MS PowerPoint presentation and could be presented as movie of AVI or MP4 file. It should be prepared according to the following guidelines:

1. Use the presentations template of the forum (Downloaded template from forum website).
2. Include the the logo of King Abdulaziz University and the slogan of the 11th Scientific Forum in the first page of the presentation.
3. Save a copy of the presentation on flash memory (USB) and bring it on the day of presentation.
4. Start your presentation with a slide that includes the title, authors and their affiliation. This slide should clearly show that the presentation is intended for the Eleventh Scientific Forum.
5. Make sure your presentation contains important elements such as; project idea, managerial capacity of the entrepreneur and team, products and services, marketing plan and financing plan.
6. Summarize information so that your presentation is intensive, focused and covers all aspects of your research.
7. Write short and concise legend for figures and tables, including necessary information only.
8. Maintain a reasonable proportion and correlation between the images, shapes and text in your presentation.
9. Chose text size and color and background colors wisely to ensure visibility and clarity of your presentation.
10. Presentation time should not exceed 8 minutes.
11. Use animation and include multimedia creatively.
12. Be in the session before the scheduled time of your presentation.

5. Oral Presentation of Community Services

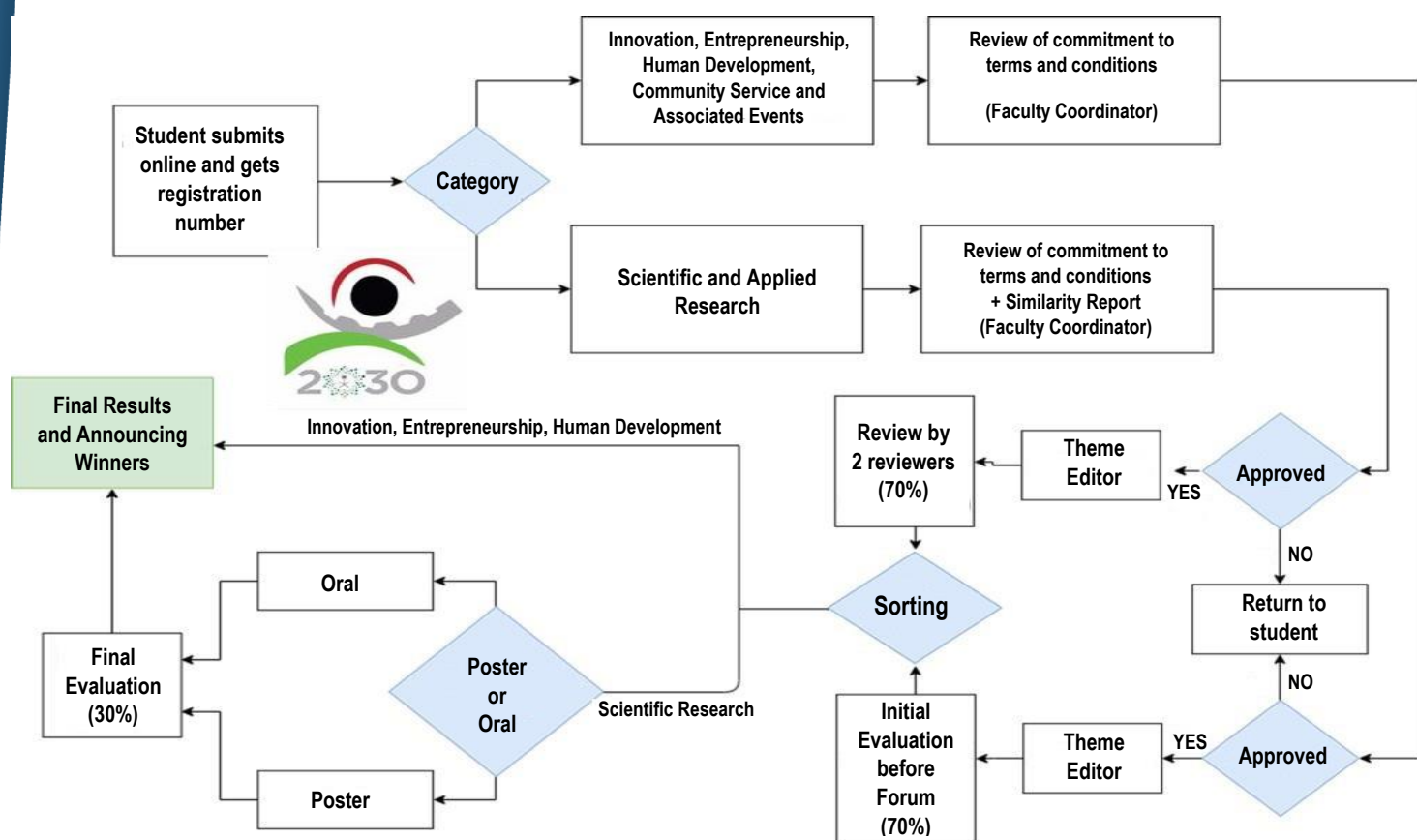
Oral presentation should be presented as MS PowerPoint presentation. It should include a movie at its end and should be prepared according to the following guidelines:

1. Use the presentations template of the forum (Downloaded template from forum website).
2. Include the the logo of King Abdulaziz University and the slogan of the 11th Scientific Forum in the first page of the presentation.
3. Save a copy of the presentation on flash memory (USB) and bring it on the day of presentation.
4. Start your presentation with a slide that includes the title, authors and their affiliation. This slide should clearly show that the presentation is intended for the Eleventh Scientific Forum.
5. Make sure your presentation contains important elements such as; project title, idea, objectives, targets, programs and activities, means and methods used, project outputs, benefits, project recommendations and a video.
6. Summarize information so that your presentation is intensive, focused and covers all aspects of your research.
7. Write short and concise legend for figures and tables, including necessary information only.
8. Maintain a reasonable proportion and correlation between the images, shapes and text in your presentation.
9. Chose text size and color and background colors wisely to ensure visibility and clarity of your presentation.
10. Presentation time should not exceed 9 minutes.
11. Use animation and include multimedia creatively.
12. Be in the session before the scheduled time of your presentation.

Forum Submission Mechanism

All submissions should be made online using the forum's website, as follows:

- Submission to all categories of the First Theme: Sustainable Development and the second category of the Second Theme: Human Development (Business Management and Community Service) should be sent online to faculty coordinators.
- Authors submitting their work to the categories of Innovation, Entrepreneurship or Community Service should bring their work to the exhibition to be judged via personal interviews according to the announced dates.
- Submission to the Associated Events category should be sent online to the faculty coordinators, along with the registration number.
- Submission from the preparatory year students are delivered through the English Language Institute.
- The following flowchart explains the procedures of the peer-reviewing processes:



Forum Awards

First Theme: Sustainable Development

First Category: Scientific and Applied Research

Track	First Award (SAR)	Second Award (SAR)	Third Award (SAR)
Medical Sciences Oral, Undergraduate	1200 + Golden Feather	900	600
Medical Sciences Poster, Undergraduate	1000	750	500
Medical Sciences Oral, Postgraduate	1800 + Golden Feather	1200	900
Medical Sciences Poster, Postgraduate	1500	1000	750
Engineering/Technical Sciences Oral, Undergraduate	1200 + Golden Feather	900	600
Engineering/Technical Sciences Poster, Undergraduate	1000	750	500
Engineering/Technical Sciences Oral, Postgraduate	1800 + Golden Feather	1200	900
Engineering/Technical Sciences Poster, Postgraduate	1500	1000	750
Basic/Natural Sciences Oral, Undergraduate	1200 + Golden Feather	900	600
Basic/Natural Sciences Poster, Undergraduate	1000	750	500
Basic/Natural Sciences Oral, Postgraduate	1800 + Golden Feather	1200	900
Basic/Natural Sciences Poster, Postgraduate	1500	1000	750
Humanity/Social/Management Sciences Oral, Undergraduate	1200 + Golden Feather	900	600
Humanity/Social/Management Sciences Poster, Undergraduate	1000	750	500
Humanity/Social/Management Sciences Oral, Postgraduate	1800 + Golden Feather	1200	900
Humanity/Social/Management Sciences Poster, Postgraduate	1500	1000	750

Second Category: Innovation and Entrepreneurship

Track	First Award (SAR)	Second Award (SAR)	Third Award (SAR)	Fourth Award (SAR)	Fifth Award (SAR)	Sixth Award (SAR)
Innovation	2000 + Golden Feather	1800	1600	1400	1200	1000

Track	First Award (SAR)	Second Award (SAR)	Third Award (SAR)
Emerging Entrepreneurship	1000	750	500
Existing Entrepreneurship	1500	1200	900

Third Category: Published Research Articles

First Award (SAR)	Second Award (SAR)	Third Award (SAR)
3000	2000	1000

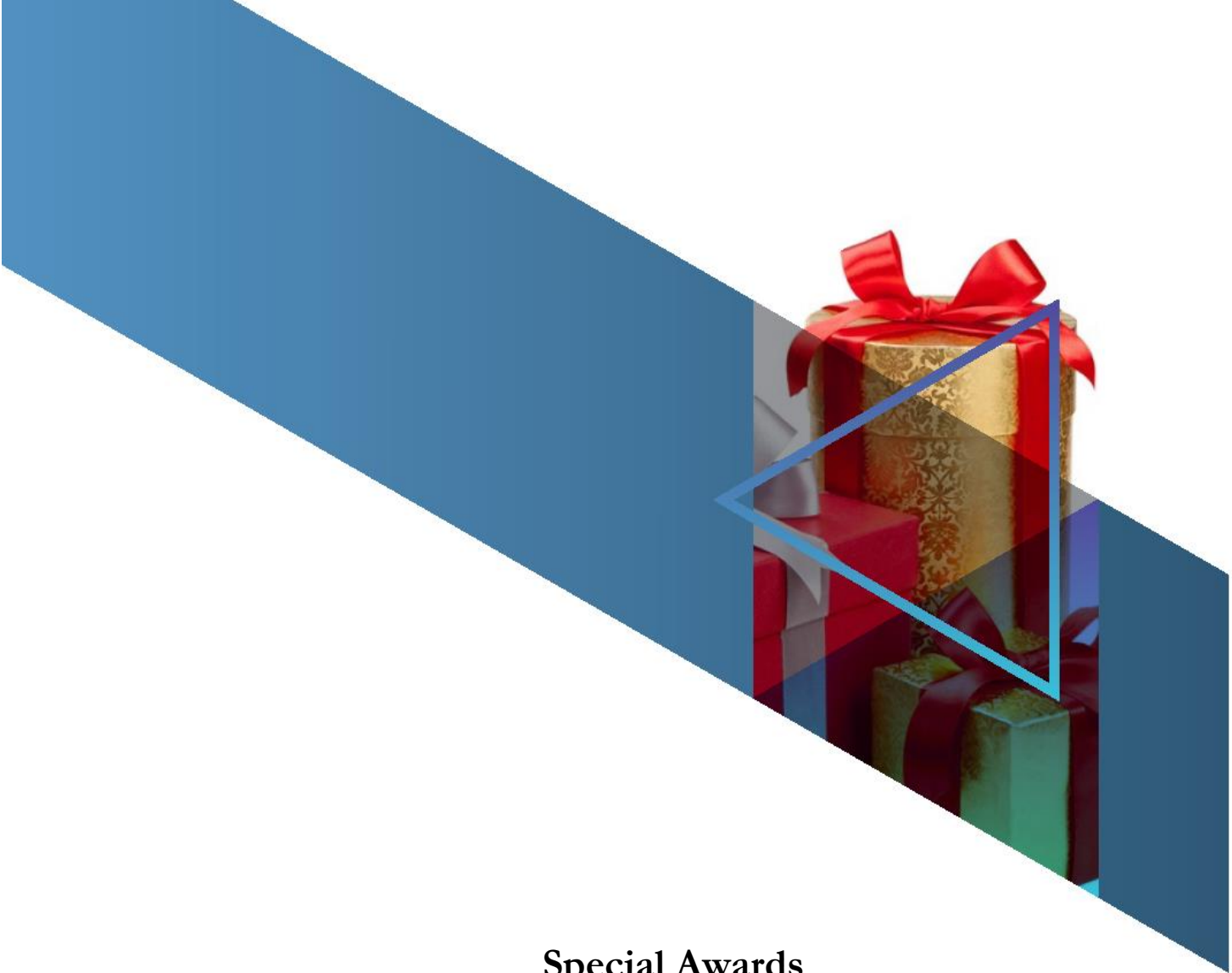
Second Theme: Human Development

First Category: Business Management and Community Service

Track	First Award (SAR)	Second Award (SAR)	Third Award (SAR)
Distinctive Idea	1000	750	500
Community Service Initiative	1000	750	500
Awareness Movies	1000	750	500

Second: Associated Events

Track	First Award (SAR)	Second Award (SAR)	Third Award (SAR)
Public Arabic Speech	1200	900	600
Short Documentary	1000	750	500
Drawing	1000	750	500
Digital Art	1000	750	500
Photography	1000	750	500
Free Art	1000	750	500



Special Awards

The 11th Scientific Forum offers a number of special awards for researches and projects that serve the Arabic language, the language of the Holy Quran, and enhance its status and deepen its use in our daily lives in any form. Examples are teaching Arabic to non-native speakers, artificial intelligence programs that involve Arabic and its vocabulary, methods of teaching Arabic, programs to teach children Arabic, etc.... Moreover, projects and researches that seek to strengthen the status of the Arabic language and global communication through it and contribute to the formulation of science and civilization are eligible to these awards. All submission in all themes of the forum are eligible for these awards.

The forum also offers several special awards entitled "Social Immunity Award" for submissions that deal with topics promoting the concepts of the social solidarity and the protection of Saudi youth from extremist ideologies and harmful propaganda. Submission in all tracks of the forum can be nominated for this award.



 King Faisal Convention Center

 15-17 March 2020



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