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English for Specific Purposes



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This book, *English for Specific Purposes* offers classes that focus on developing the language skills needed in comprehending other subjects-related and understanding of writing journal and research. The book's contains about Fundamental Structure which engages pupil's basic knowledge and understanding about Parts of Speech and Tenses in their daily life, Different Reading topics which aims to extend pupil's comprehension with frameworks and ideas from a range of sources, mainly using skimming, scanning, summarizing, slurp, previews, view, and review strategies in comprehending the text, Generic Structures which encourages pupils in differentiating kinds of text based on the pupose and the generic structure of the texts, Writing Skill which aims to make pupils getting used to with scientific journals or research proposals which deals with their subject-related.

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SPECIFIC PURPOSES**

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1965, evidence that there should eventually be found. Two scientists named Arno Penzias and Robert Wilson discovered these waves by accident. And they get a Nobel prize for this **discovery**. This radiation is called the **Cosmic** Background Radiation. Radiation is invisible to radiate from a particular source, but covers the entire space. Garmov was immediately realized that this radiation is an echo of the big bang that is still echoing from the explosion.

In 1989, NASA launched the COBE satellite (Cosmic Background Explorer) into space to do research on cosmic background radiation. This satellite is the first satellite launched to measure radiation. And just in time 8 minutes, the satellites can discover and prove the existence of radiation research Penzias and Wilson. This finding is expressed as the greatest astronomical discoveries of all time. This evidence caused the Big Bang theory can be accepted in society. Big Bang Theory as a theory of creation of the universe is the last point achieved knowledge about the origin of the universe.

In essence, an **explosion** will cause material jump in random. But not in the Big Bang case. Those materials were even arranged **neatly**. In fact, those materials form the planets, stars and **galaxies** that arrangement look so amazing. Fred Hoyle, a challenger to the Big Bang theory expressed surprise about this order:

"big bang theory states the universe began with a single explosion. However, as shown in the following section, an explosion will only make the material ejected at random, but the big bang mysteriously give results contrary to the material collected in the form of galaxies"

This shows that everything which happens in the universe is the will of Allah. Allah revealed in the Quran.

Al-Furqan verse 2:

الَّذِي لَهُ مُلْكُ السَّمَاوَاتِ وَالْأَرْضِ وَلَمْ يَتَّخِذْ وَلَدًا وَلَمْ يَكُنْ لَهُ شَرِيكٌ فِي الْمُلْكِ وَخَلَقَ كُلَّ شَيْءٍ فَقَدَرَهُ تَقْدِيرًا

Read the text carefully!

THE RELATIONSHIP BETWEEN AL-QURAN AND BIG BANG THEORY

The creation of the universe today may still be a mystery for all human. How was the universe that so big can be formed in perfect? Various theories of creation of the universe began advanced by **astronomers**. From the theory of materialism, we believe that the **universe** has self-existence.

In the 20th century, scientists have been **convinced** that the universe was created from nothingness as the result of an explosion called the Big Bang. In other words, the universe was created by God. As proof, the Qur'an as one source of knowledge revealed in the letter of **Al-Anbiyaa verse 30**:

“Have those who disbelieved not considered that the heavens and the earth were a joined entity, and We separated them and made from water every living thing? Then will they not believe?”

The Big Bang model or theory is the prevailing **cosmological** theory of the early development of the universe. According to the Big Bang model, the universe was originally in an extremely hot and dense state that expanded rapidly. This expansion caused the universe to cool and resulted in the present **diluted** state that continues to expand today. Based on the best available measurements as of 2010, the original state of the universe existed around 13.7 billion years ago, which is often referred to as the time when the Big Bang occurred. The theory is the most comprehensive and accurate explanation supported by scientific **evidence** and observations.

In 1948, George Gamov rouse new opinion about the Big Bang. He said that after formation of the universe was formed from big bang would have no **residual** radiation left by the explosion. In addition, this radiation must be spread evenly throughout the universe. In

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Lesson I

Introduction

A. Background

This book is designed for specific disciplines. Our intended audience is Undergraduate following first degrees in Science and Technology Faculty of Islamic State University Sunan Gunung Djati Bandung. This book of ESP is basically the same with General English, but it may have a different methodology from that general English. As Hutchinson et al. (1987:53) simply said in his book about the difference between ESP and General English "in theory nothing, in practice a great deal". At the time, teachers of General English courses, while acknowledging that students had a specific purpose for studying English, would rarely conduct a needs analysis to find out what was necessary to actually achieve it.

This book should be seen simple as an 'approach' to teaching, or what Dudley-Evans describes as an 'attitude of mind'. This is a similar conclusion to that made by Hutchinson et al. (1987:19) who state, "ESP is an approach to language teaching in which all decisions as to content and method are based on the learner's reason for learning".

Lesson XIV

How To Write A Journal

Competency standard:

1. Learners learn what is the importance of a journal.
2. Learners learn phases in writing a journal.
3. Learners learn the characteristics of journal.
4. Learners try to write their early project draft based on the phase of writing journal.

A. The Importance of Journal

The function of a journal is to distribute knowledge, not to make money for the publishers. It facilitates scholarly communication between members of a particular academic discipline and/or the public.

B. Definition of Journal

Academic journal includes original research articles, written by researchers and experts in a particular academic discipline.

Extensive **research articles** and analysis written in formal academic styles; some of these types of articles can be considered **primary sources**. May include scholarly **review articles** or news sections which briefly report on new research; these are not research articles. Plain covers, and generally more charts, graphs, and illustrations than photographs; sometimes advertising. Often

About the Authors



M. SUBANDI. He obtained doctoral degree in Agricultural Sciences in the early of 2000 from Padjadjaran University of Bandung. He learned Arabic better than English when he was a younger. Never had he sat for English lecture in a formal tertiary education, but ever had he registered as a student of Arabic Department of a Islamic College. However, the Headmaster of the Senior High School of Agriculture (SPMA) of Sukabumi appointed him to be the English master in 1981 when he got the first assignment as an educator. Since then he has never resigned as English teacher or lecturer wherever he got assignment. With his ability in this tool of communication, he was passed the selection and test for a Capability Building Short Course at Melbourne University of Victoria, Australia. His English was also the only language in active at the overseas workshops attended (National University of Singapore, Universiti Industri of Selangor, International Islamic University of Malaysia) even in Arabic countries. Arabian he met preferred to speak in English than Arabic with him. He acted as spokesman of lecturers delegation to Islamic School of South Thailand. He was a sole representative of Ministry of Religious Affairs of the Republic of Indonesia to the Revision

of Text Book and Sub-Regional Workshop on the Incorporation of Environmental Education in Dhaka, Bangladesh organized by Islamic Education, Science and Cultural Organization (ISESCO) Regional Office of Tehran. He also got partial fellowship from the Science and Technology Commission (Comstech) of the Organization of Islamic Cooperation (OIC) to attend the Workshop and Training on Foresight for Innovation in Islamabad of Pakistan. He got a grant of air ticket from Islamic Development Bank (IDB) and a Calling Visa from the Indonesian Embassy of Cairo to travel in Egypt where he made a short survey of Islamic Scientific Education in Al-Azhar University, Cairo and Suez Canal Universities, and Egyptian Irrigation System of the Nile river. He has managed to write several books of Islamic Scientific and text book of Agricultural Sciences. He published more than a dozen of Agricultural and Islamic Articles in national and international journals. The article of Developing Islamic Economic Production is one of his articles published in a reputable International Journal of Science, Technology, and Development as a publication of Pakistan Council of Science & Technology, Ministry of Science and Technology of the Islamic Republic of Pakistan. CANNOT SURVIVE WITHOUT IT; and NO FEAR OF STARVATION were the champion and the runner up articles made him won the International Best Articles Writing Competition in Poland in 2012. These achievements led him to receive the National Appreciation as Creative Lecturer from the Ministry of Religious Affairs of the Republic of Indonesia of 2012.

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TITA TALBIYA TOURISIA. Born in Bandung, and obtained bachelor degree in Padjadjaran University of Bandung and she took Master Degree of English at Indonesia University of Jakarta. Teaches ESP and GE for student of Faculty of Sciences and Technology of the State Islamic University of Bandung. She attended several national and international

linguistic forums, seminars, workshop, conferences. In language teaching he attended linguistic events as Bandung International Conference on Language and Education (BICOLE 11) - *Information and Communication Technology in Language Studies, Research and Academic Writing Colloquium 2014, Scientific and Technological Literacy, Digital Technology in English Language Teaching*. In 1999-2006, She served as trainer for teachers (*Teacher Trainer*) at the Local Education Centre (LEC) , and he took some training for trainer (Master Teacher Training) in Jakarta University (UNJ). And in 1999-2002 Training for Trainer conducted for Private Junior Secondary Education Project in cooperation with the General Directorate of Elementary and Senior School of the Ministry of Culture and Education of the Republic Indonesia and the Pasundan University of Bandung. She has completed some books as *Implikasi dan Peran Teacher's Belief terhadap Kemandirian Pelajar (Learners' Autonomy) dalam pembelajaran bahasa* (2015), *the influence of using cooperative learning method on creating active learning experiences in studying English* (2004). Article entitles "Wanita, Ibu, Istri, Anak"; "refleksi atas sebuah kesadaran spiritual", and Training Manual of *Classroom Action research, Classroom display, Classroom layout* and *Cooperative learning*.

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SITI AFNI AFİYANI : Obtained her Bachelor at Department of English, Faculty of Literature of the State Islamic University of Bandung. And master degree in Linguistics from the Indonesia University of Education of Bandung. She taught English in Economic Senior High School of Sumedang district and in the Faculty of Science and Technology and Faculty of Literature of the State Islamic

University of Sunan Gunung Djati of Bandung before He registered and passed the test and selection for Indonesian Public Servant. Now, she serves as Linguistic Reviewer at the Centre for Strategic and Diplomatic Language, Board of Language Service and Development of the Ministry of Education and Culture of the Republic of Indonesia in Jakarta. Her English in improving at the International events (Seminars and workshops) frequently conducted at the Centre where she acts as staff organizer.

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HANY HANIFA HUMANISA. She obtained degree in English Education in 2002 from the Tarbiyyah Faculty and she got English Master degree in the Indonesian Education University of Bandung. Her parents as chairman of Husainiyyah Islamic Boarding School inherited her a strong Islamic strengthened with the education in which she spent her younger in Islamic College of Pabelan in Central Java. She teaches English in Secondary Schools in Cicalengka and as English Assistant in Faculty of Tarbiyyah and Teacher Training of the Islamic University of Sunan Gunung Djati and she is also an English lecturer in Agriculture Faculty of Winaya Mukti University. She is one of the management of Husainiyyah Foundation where she acts as a murabbiyyah (woman teacher or Islamic guide). She was a Facilitator of Lesson Study of West Java Province at Sukabumi District.