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The term "Ulema" in the Qur'ān refers to <u>SCIENTISTS</u> as we shall see from the following <u>SIGNS</u> (ayāt) which we quote in full.

Do you not see that Allah sends down water from the clouds, then we bring forth therewith fruits of various hues? And in the mountains are streaks white and red, of various hues and (others) intensely black. And of men and beasts and cattle there are various colours likewise. Those of His servants <u>ONLY WHO ARE POSSESSED OF KNOWLEDGE</u> fear Allah. Surely Allah is Mighty, Forgiving (35:27-28).

Here Allah says that the Ulema are those who are versed in <u>BOTANY</u> ("fruits of various hues"); <u>GEOLOGY</u> ("streaks white and red ..."), <u>BIOLOGY</u> and <u>ZOOLOGY</u> ("And of men and beasts and cattle ...").

Behold! in the creation of the heavens and the earth, and the alternation of night and day <u>THERE ARE SIGNS</u> (ayāt) <u>FOR MEN OF UNDERSTANDING</u>. Such as remember Allah, standing, sitting, and reclining, <u>AND REFLECT ON THE CREATION OF THE HEAVENS AND THE EARTH</u>, (and say): Our Rabb! You have NOT created this for nothing (3:190-191).

The above ayāt is a clear reference to those who study the <u>SCIENCE OF THE UNIVERSE</u>, namely the <u>COSMOLOGISTS</u>.

It is He Who made the sun to be a shining brightness and the moon to be a light, <u>AND ORDAINED FOR IT STAGES THAT YOU MIGHT KNOW THE COMPUTATION OF YEARS AND RECKONING</u>; Allah did not create (all) that except with truth (bil haqq). He explains His signs (ayat) in detail <u>FOR PEOPLE WHO HAVE KNOWLEDGE</u> (10:5).

These words of the Qur'an point to the study of ASTRONOMY and ASTRONOMICAL CALCULATIONS.

Say: "TRAVEL THROUGH THE EARTH and SEE how Allah did originate creation; so will Allah produce a later creation: for Allah has power over all things" (29:20).

This ayat is a reference to the <u>SCIENCES</u> of <u>ARCHAEOLOGY</u> and <u>PALAEONTOLOGY</u>.

And the changing of the winds and the clouds which they trail like their slaves between the sky and the earth: (Here) indeed are signs (ayāt) <u>FOR A PEOPLE WHO HAVE SENSE</u> (2:164).

This ayat is a reference to the <u>SCIENCES</u> of <u>METEOROLOGY</u> and <u>NEPHOLOGY</u>.

And among His signs (ayāt) is the creation of the heavens and the earth, and the diversity in your languages and your colours: verily in that are signs (ayāt) <u>FOR PEOPLE WHO HAVE KNOWLEDGE</u> (30:22).

This ayat is a reference to the SCIENCES of PHILOLOGY and ETHNOLOGY.

Have they not <u>TRAVELLED IN THE LAND</u> and <u>SEEN</u> what was the end of those before them? They were stronger than these in prowess and dug up the earth, and built on it more than these have built (30:9).

These words of the Qur'an refer to the SCIENCES of ANTHROPOLOGY and SOCIOLOGY.

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