THE INTERNATIONAL STANDARDS IN FIELDS OF APPLICATION OF INFORMATION TECHNOLOGY

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Abstract: *According International Classification for Standards (ICS) Application of Information Technology is ranged in frame of group ICS=35.240, with 280 ISO or ISO/IEC and 45 IEC standards. In the paper is presented analysis of ISO, ISO/IEC and IEC standards for Application of Information Technology and structure Technical Committee (TC) for fields of Information Technology.*

Keywords: industry, construction, mechanical

1. Introduction

Information Technology (IT) has been developed in years so it conquered particularly all aspect of human practice. It can be said that for long time IT found huge application in almost all fields and sphere of society, e.c. there is no field where computers don't play the main role. So IT found application in all industrial fields (chemical, technology, food, mechanical and so on), but and in architecture, construction, agriculture, trade, banks, medicine, tribunal, state organs and organs of local autonomy, education and so on.

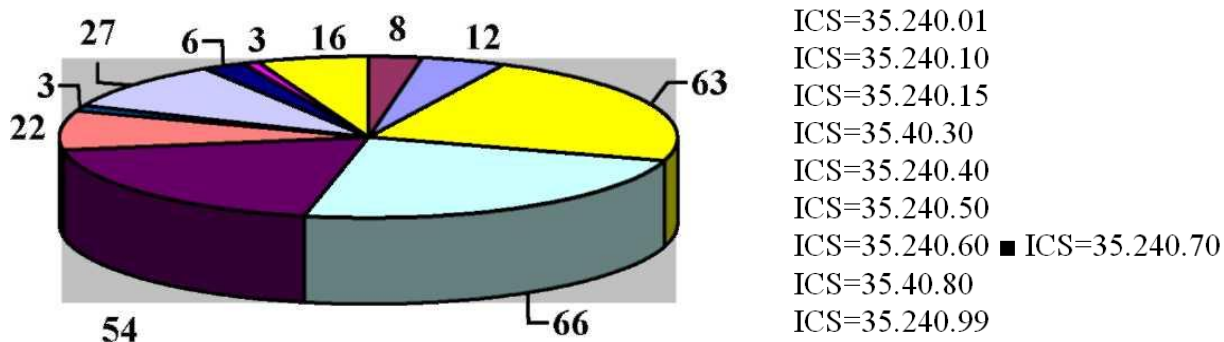## 2. Ranged application of Information Technology according of International Classification for Standards

According International Classification for Standards (ICS) Application of Information Technology is ranged in frame **35** of field and **240** group **(ICS=35.240).** In frame of decided group **35.240** it is standardized groups of application of IT in 11 belonged sub-group (table 1).

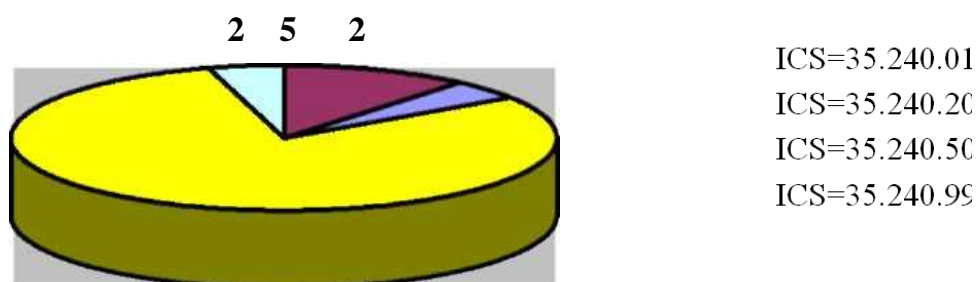## 3. ISO Standards for statistical methods

Eleven sub-group of application of IT consist 280 ISO or ISO/IEC standards (341 documents) and 45 IEC standards, lastupdated on 31-03-2002 (table 1 and figure 1 and 2). Sub-group of IT applications in office work have sign ICS=35.240.20 with the bigest number of ISO or ISO/IEC standards (66 standrads and 104 documents) in frame **35.240** (Application of IT) of group (table 1 and figure 1) and sub-group of IT applications in industry have sign ICS=35.240.50 with the bigest number of IEC standards (36 standrads) in frame **35.240** (Application of IT) of group (table 1 and figure 2).

No	ICS sign	Title of ICS fields	ISO or ISO/IEC standards		IEC standards	
			number	Percent [%]	number	Percent [%]
1.	**5.240.01**	Application of information technology in general	8	2,86	5	11,12
2.	**5.240.10**	Computer-aided design (CAD)	12	4,28	0	0
3.	**5.240.15**	Identification cards and related devices	63	22,50	0	0
4.	**5.240.20**	IT applications in office work	66	23,57	2	4,44
5.	**5.240.30**	IT applications in information, documentation and publishing	54	19,29	0	0
6.	**5.240.40**	IT applications in banking	22	7,86	0	0
7.	**5.240.50**	IT applications in industry	3	1,07	36	80,00
8.	**5.240.60**	IT applications in transport and trade	27	9,64	0	0
9.	**5.240.70**	IT applications in science	6	2,14	0	0
10.	**5.240.80**	IT applications in health care technology	3	1,07	0	0
11.	**5.240.99**	IT applications in other fields	16	5,72	2	4,44
		Totally:	280	100,00	45	100,00

ICS=35.240.01
ICS=35.240.10
ICS=35.240.15
ICS=35.40.30
ICS=35.240.40
ICS=35.240.50
ICS=35.240.60 ■ ICS=35.240.70
ICS=35.40.80
ICS=35.240.99

Figure 1: Graphic review of frequency of number ISO or ISO/IEC standards in frame sub-group of application of IT (ICS=35.240)

2   5   2

ICS=35.240.01
ICS=35.240.20
ICS=35.240.50
ICS=35.240.99

Figure 2: *Graphic review of frequency of number IEC standards in frame sub-group of application of IT (ICS=35.240)*

4. Technical Committee for Information Technology

For Standardization in the IT, including generation, collection (planning and design), analysis, presentation and interpretation of data is indebted Joint Technical Committee (JTC): **JTC1** *Information Technology.* Joint Tehnical Committee **JTC1** is consisted from 17 Sub Committee (SB) and works group (WG)in frame Sub Committee (table 2).

Table 2: *Table review of Joint Technical Committee (**JTC1**) structure*

No.	Committee sign	Title Committee
1.	JTC 1/SC 2	Coded character sets
2.	JTC 1/SC 6	Telecommunications and information exchange between systems
3.	JTC 1/SC 7	Software and system engineering
4.	JTC 1/SC 11	Flexible magnetic media for digital data interchange
5.	JTC 1/SC 17	Cards and personal identification
6.	JTC 1/SC 22	Programming languages, their environments and system software interfaces
7.	JTC 1/SC 23	Optical disk cartridges for information interchange
8.	JTC 1/SC 24	Computer graphics and image processing
9.	JTC 1/SC 25	Interconnection of information technology equipment
10.	JTC 1/SC 27	IT Security techniques
11.	JTC 1/SC 28	Office equipment
12.	JTC 1/SC 29	Coding of audio, picture, multimedia and hypermedia information
13.	JTC 1/SC 31	Automatic identification and data capture techniques
14.	JTC 1/SC 32	Data management and interchange
15.	JTC 1/SC 34	Document description and processing languages
16.	JTC 1/SC 35	User interfaces
17.	JTC 1/SC 36	Learning technology

5. Conclusions

The fields of Application of IT is classify in subgroup **ICS=35.240,** with 280 ISO and ISO/IEC and 45 IEC standards.

For standardization in the Application of IT is in debt Joint Technical Committee **JTC1,** with 17 Sub Committee.

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