

Internet en la formación de Ingenieros

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BUAP - FCC

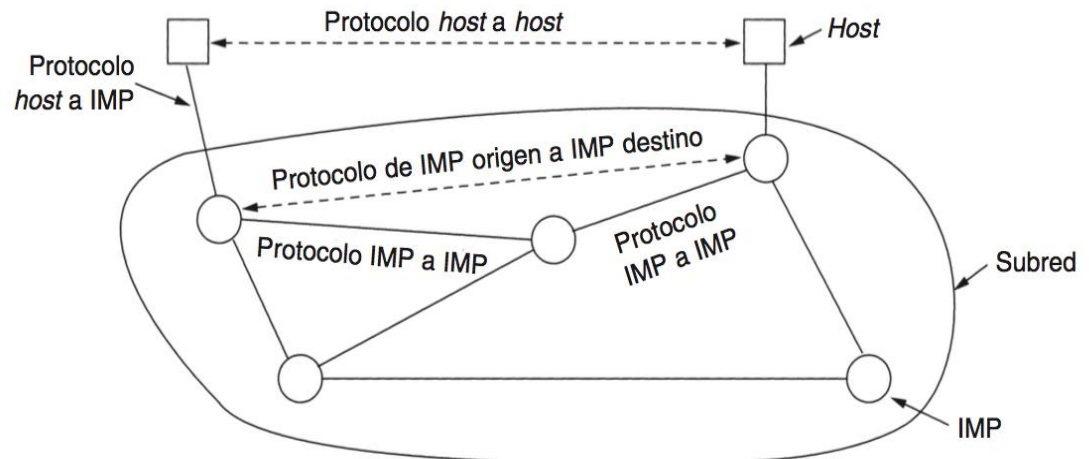
Resumen

- Historia
- Un minuto
- INEGI
- BUAP – FCC – MCC
- BUAP – FCC – Licenciaturas
- Conclusiones

History

- 1968 - US Department of Defense (DoD)
- Advanced Research Projects Agency (ARPA)
- 1969 - ARPANET
 - Interface Message Processors (IMPs)
 - Network Control Program (NCP)
 - Initial Connection Protocol (ICP)

- UCLA
- Stanford Research Instit
- UC Santa Barbara
- UTAH



History

- 1973 - Robert Kahn and Vinton Cerf
- A Protocol for Packet Network Intercommunication
 - Transmission Control Protocol (TCP)
 - Internet Protocol (IP)
- National Science Foundation (NSF)
 - 1981 - Computer Science Network (CSNET)
 - 1986 – NSFNET
- 1990 - ARPANET was closed
- 1995 – NSFNET was closed

History

- 1995 – Internet was open to the public packets
- 1991 - Cerf and Kahn
 - Internet Society
 - Internet Engineering Task Force (IETF)
 - Internet Corporation for Assigned Names and Numbers (ICANN)
- 2004 - Turing Award winners



World Wide Web

- 1989, Tim Berners-Lee at CERN



AWARD WINNER

Sir Tim Berners-Lee

ACM A. M. Turing Award (2016)

ACM Software System Award (1995)

2016 ACM A.M. Turing Award

Web

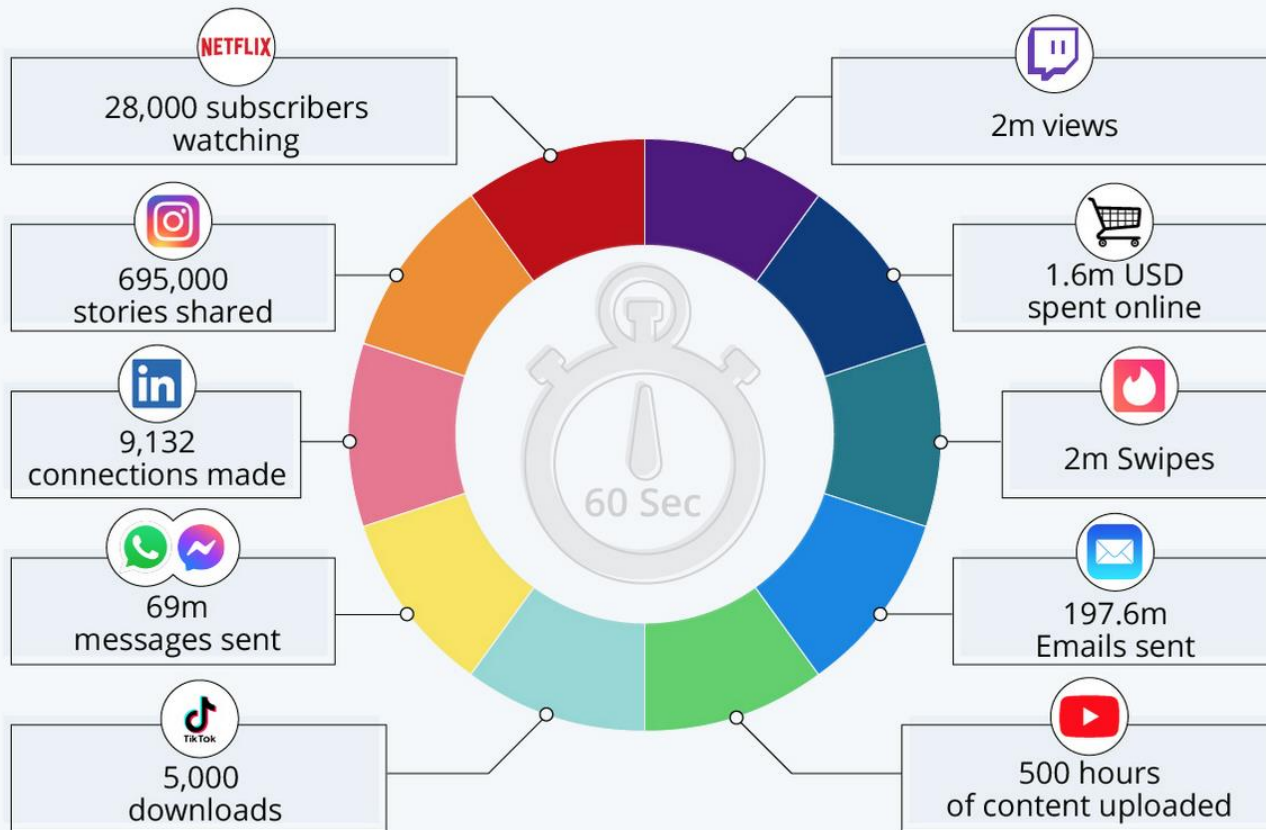
- Uniform Resource Identifier (URI)
 - to allow any object on the Internet to be named, and thus identified
- Hypertext Transfer Protocol (HTTP)
 - for the exchange, retrieval, or transfer of an object over the Internet
- Web browser
 - software application that retrieves and renders resources on the www along with clickable links to other resources
- Hypertext Markup Language (HTML)
 - specifies the presentation format of the webpages

HTTP://www

- World Wide Web Consortium (W3C) and IETF
- 1997, HTTP/1.1 – RFC 2068
- 1999, HTTP/1.1 – RFC 2616
- 2014, HTTP/1.1 – RFC 2730, 2731, 2732, 2733, 2734, 2735
- 2015, HTTP/2 – RFC 7540, 7541, 8164, 8336, 8441, 8740
- 2021, HTTP/3 – draft

A Minute on the Internet in 2021

Estimated amount of data created on the internet in one minute



Source: Lori Lewis via AllAccess



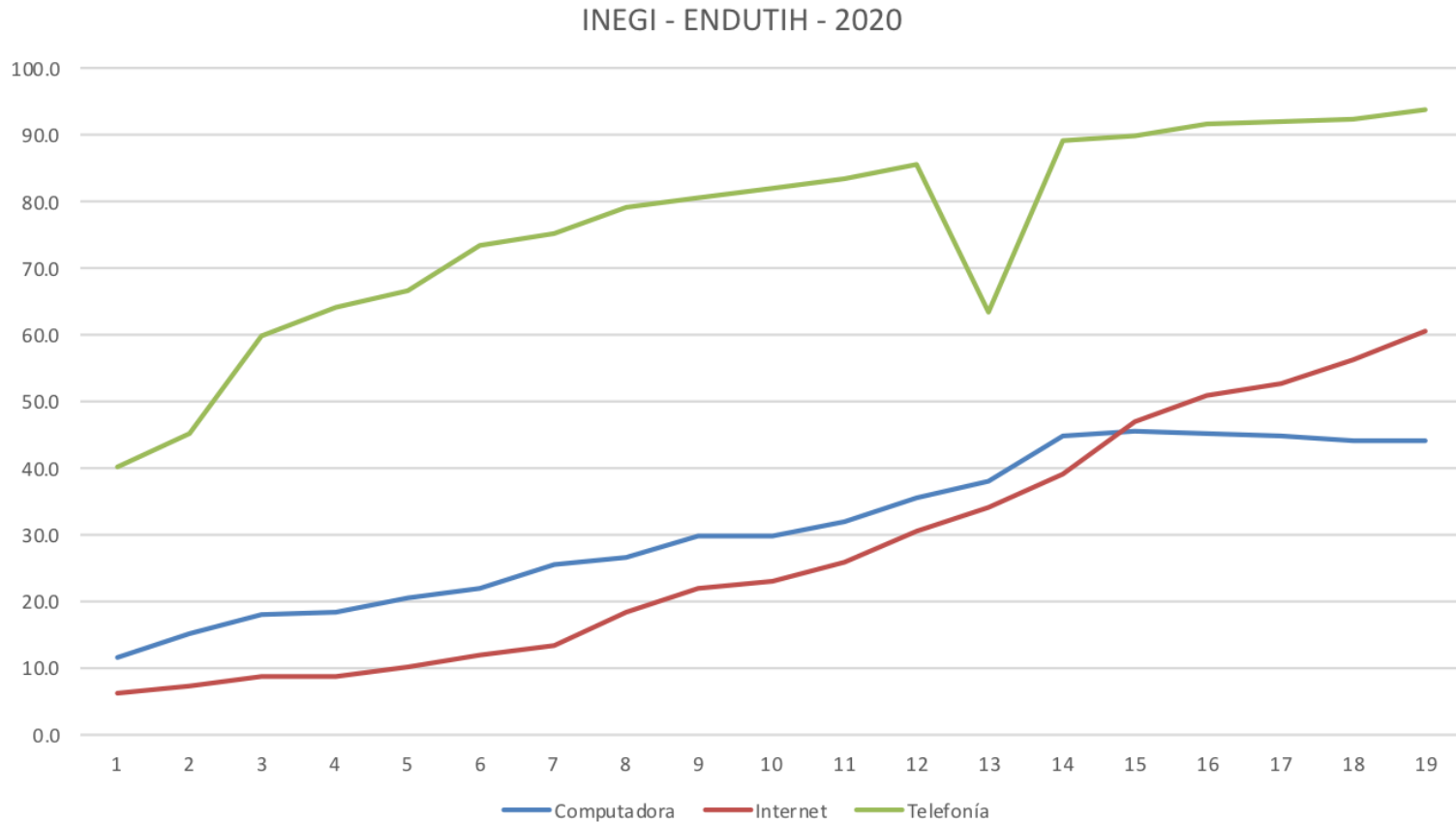
statista

2022



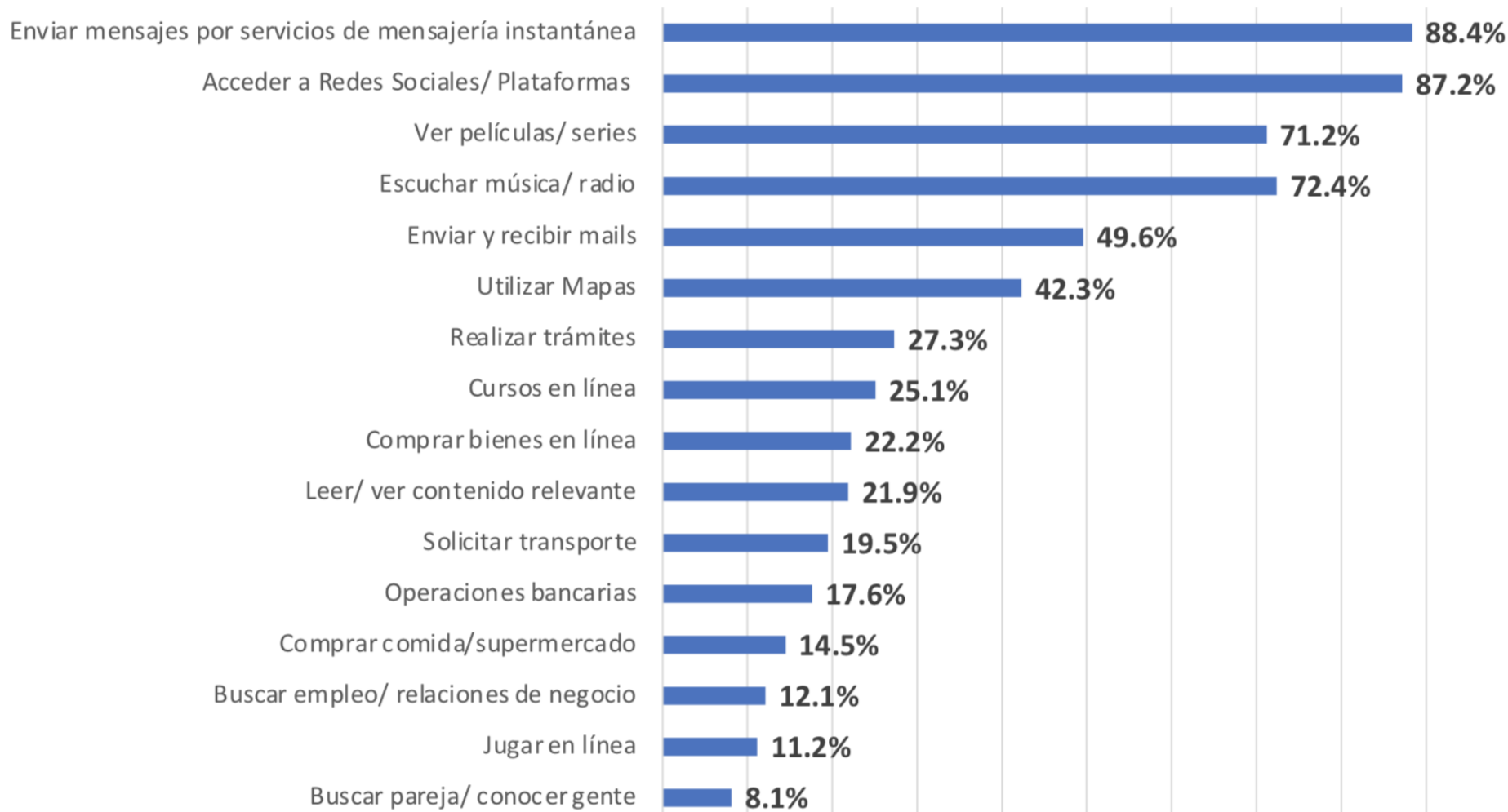
Internet - MALCH

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- INEGI. Encuesta Nacional sobre Disponibilidad y Uso de Tecnologías de la Información en los Hogares (ENDUTIH), 2020.
- 89.5 millones de internautas en México

Actividades en Línea: Proporción de Personas Usuarias



BUAP – FCC – MCC

Año	No. Aspirantes	No. Aceptados	No. Titulados	% Titulados
2016	16	7	5	71.4
2017	16	5	5	100
2018	18	11	10	90.9
2019	11	9	7	77.7
2020	15	14	12	85.7
2021	12	10	?	?

?

BUAP – FCC – Licenciaturas

Año	Tesis	CENEVAL	Diplomado	Experiencia profesional	Titulación automática	Total
2017	23	39	1	14	0	77
2018	53	130	6	16	28	233
2019	48	123	2	12	23	208
2020	17	61	0	8	9	95
2021	35	120	5	6	31	197
Total	176	473	14	56	91	810

?

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Ingeniería en Ciencias de la Computación
Ingeniería en Tecnologías de la Información

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1,025,349 Result(s) within Computer Science



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1

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Volume 1 / 2015 - Volume 8 / 2022

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- Cerf, Vinton G., [Protocols for Interconnected Packet Networks](#), *ACM Computer Communication Review*, Vol. 10, Num. 4, 1980, pp. 10-59.

INEGI - 2020

INEGI. Encuesta Nacional sobre Disponibilidad y Uso de Tecnologías de la Información en los Hogares (ENDUTIH), 2020.

Hogares con equipamiento de tecnología de información y comunicaciones, según tipo de tecnología, 2001 a 2020

Año	Computadora		Internet		Televisor		Televisión de paga		Telefonía ^a		Radio		Energía eléctrica	
	Absolutos	Por ciento	Absolutos	Por ciento	Absolutos	Por ciento	Absolutos	Por ciento	Absolutos	Por ciento	Absolutos	Por ciento	Absolutos	Por ciento
2001 ^b	2 757 980	11.8	1 454 744	6.2	21 520 421	91.9	3 168 446	13.5	9 444 818	40.3	ND	NA	ND	NA
2002 ^b	3 727 071	15.2	1 827 095	7.5	22 937 622	93.6	3 768 301	15.4	11 116 339	45.4	ND	NA	ND	NA
2004 ^c	4 689 043	18.0	2 264 178	8.7	23 883 044	91.7	5 035 133	19.3	15 628 958	59.9	ND	NA	ND	NA
2005 ^c	4 729 762	18.6	2 294 221	9.0	23 654 375	92.8	4 971 739	19.5	16 451 779	64.1	22 749 209	89.3	ND	NA
2006 ^d	5 491 495	20.6	2 698 062	10.1	24 860 176	93.4	5 604 026	21.0	17 734 962	66.6	23 539 771	88.4	ND	NA
2007 ^e	5 937 125	22.1	3 221 631	12.0	25 037 949	93.3	6 628 141	24.7	19 783 939	73.7	23 823 506	88.8	25 787 060	96.1
2008 ^e	7 127 054	25.7	3 751 870	13.5	25 885 390	93.2	6 640 609	23.9	20 967 438	75.5	24 246 259	87.3	27 464 711	98.9
2009 ^f	7 460 463	26.8	5 119 437	18.4	26 513 772	95.1	7 584 194	27.2	22 101 364	79.3	23 134 541	83.0	27 587 340	98.9
2010 ^g	8 444 621	29.8	6 289 743	22.2	26 834 313	94.7	7 558 855	26.7	22 838 360	80.6	23 398 102	82.5	28 158 436	99.3
2011 ^d	9 030 198	30.0	6 994 654	23.3	28 472 673	94.7	9 125 418	30.4	24 702 793	82.2	24 343 337	81.0	29 812 291	99.2
2012 ^d	9 835 865	32.2	7 933 788	26.0	29 007 139	94.9	9 849 450	32.2	25 555 685	83.6	24 219 298	79.3	30 298 815	99.2
2013 ^d	11 146 494	35.8	9 574 027	30.7	29 546 248	94.9	11 438 370	36.7	26 633 946	85.5	23 954 367	76.9	30 930 300	99.3
2014 ^d	12 022 743	38.3	10 798 467	34.4	29 787 025	94.9	11 965 452	38.1	19 906 923	63.4	23 011 169	73.3	31 225 760	99.5
2015 ^g	14 685 210	44.9	12 810 487	39.2	30 580 591	93.5	14 303 987	43.7	29 188 249	89.3	21 530 737	65.8	32 421 988	99.2
2016 ^g	15 184 257	45.6	15 658 535	47.0	30 992 631	93.1	17 339 206	52.1	30 001 506	90.1	20 472 575	61.5	33 084 440	99.3
2017 ^g	15 517 436	45.4	17 397 850	50.9	31 856 141	93.2	16 897 001	49.5	31 390 775	91.9	20 036 106	58.6	33 974 275	99.4
2018 ^g	15 574 182	44.9	18 343 824	52.9	32 243 845	92.9	16 395 806	47.3	31 983 732	92.2	19 486 879	56.2	34 462 820	99.3
2019 ^f	15 840 809	44.3	20 131 852	56.4	33 033 882	92.5	16 413 224	45.9	33 050 284	92.5	19 265 420	53.9	35 528 292	99.5
2020 ^h	15 920 557	44.2	21 787 531	60.6	32 944 635	91.6	15 396 639	42.8	33 766 763	93.8	18 519 219	51.5	35 810 355	99.5

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