



## **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**

An Autonomous Institution | Approved by AICTE | Affiliated to Anna University | Accredited by NAAC with A++ Grade  
Kuniamuthur, Coimbatore – 641008

Phone : (0422)-2678001 (7 Lines) | Email : [info@skcet.ac.in](mailto:info@skcet.ac.in) | Website : [www.skcet.ac.in](http://www.skcet.ac.in)



### **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**CURRICULUM AND SYLLABI**

### **B.E COMPUTER SCIENCE AND ENGINEERING (Cyber Security)**

**REGULATION 2022 (2023-2027 Batch)**



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### **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**B.E COMPUTER SCIENCE AND ENGINEERING  
(Cyber Security)**

**REGULATION 2022 (2023-2027 Batch)**

## ABOUT THE DEPARTMENT

### VISION

To be a globally renowned academic department for quality education and research in the field of Cyber security with ethical values and social commitment.

### MISSION

To accomplish our vision, we are committed to:

**M1:** Impart comprehensive technical education to produce highly competent Cyber security professionals and Researchers.

**M2:** Provide an academic environment with state-of-the-art technological infrastructure to provide scalable cyber security solutions.

**M3:** Impart ethics, Social responsibility and necessary professional, leadership skills through student centric activities.

### PROGRAMME OUTCOMES (POs)

**Graduates will be able to:**

**PO1 - Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2 - Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3 - Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4 - Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5 - Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6 - The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7 - Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8 - Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9 - Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10 - Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11 - Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12 - Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

**To enable graduates to:**

1. Get recognized as effective professionals for their applied skills, problem solving capabilities and professional skills in the field of cyber security.
2. Enrich skills and adopt emerging cyber security needs to pursue life-long learning and serve the society with social concern and code of ethics.

**PROGRAMME SPECIFIC OUTCOMES (PSO)**

**Upon completion of the programme, graduates will have ability to:**

**PSO1** Attain the policies in information assurance and analyze the factors in an existing system and design implementations to comprehend and anticipate future challenges.

**PSO2** Implement innovative cyber security solutions using standard tools, practices and technologies without compromising the privacy of individuals and entities.

**PSO3** Use cyber security and cyber forensics software/tools. Design cyber-security strategies and assess cyber-security risk management policies to protect an organization's information and assets.

**Mapping of PO's to PEO's**

Programme Educational Objectives (PEO)	Programme Outcomes (PO)											
	1	2	3	4	5	6	7	8	9	10	11	12
PEO 1	3	3	3	3	2	2	-	1	2	2	2	1
PEO 2	2	2	2	1	2	3	2	2	2	2	2	3

**Mapping of PO's to PSO's**

Programme Specific Outcomes (PSO)	Programme Outcomes (PO)											
	1	2	3	4	5	6	7	8	9	10	11	12
PSO 1	3	3	3	3	2	2	-	1	2	1	1	2
PSO 2	3	3	3	3	3	2	-	-	2	-	1	2
PSO3	3	3	3	2	3	2	-	1	2	1	1	2

**Mapping of PSO's & PEO's**

Programme Specific Outcomes (PSO)	Programme Educational Objectives (PEO)	
	PEO1	PEO2
1	3	2
2	3	2
3	3	2

<b>1</b>	Reasonably agreed	<b>2</b>	Moderately agreed	<b>3</b>	Strongly agreed
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<b>SEMESTER I</b>							
<b>S No.</b>	<b>Course Code</b>	<b>Course</b>	<b>L/T/P</b>	<b>Contact hrs/week</b>	<b>Credits</b>	<b>Ext/Int</b>	<b>Category</b>
1	<b>23MA101</b>	Mathematics I	3/1/0	4	4	60/40	BSC
2	<b>23IT101</b>	Application Development Practices	1/0/4	5	3	50/50	ESC
3	<b>23CS101</b>	Problem Solving using C++	1/0/4	5	3	50/50	ESC
4	<b>23EN101</b>	Oral and Written Communication Skills	2/0/2	3	3	50/50	HSMC
5	<b>23CY101</b>	Networking and Communication	3/0/2	5	4	50/50	ESC
6	<b>23TA101</b>	Heritage of Tamils	1/0/0	1	1	60/40	HSMC
<b>MANDATORY COURSE</b>							
7	<b>23MC101</b>	Mandatory Course I (Induction Programme)	Three weeks		0	0/100	MC
<b>Total</b>				<b>23</b>	<b>18</b>	<b>700</b>	

<b>SEMESTER II</b>							
<b>S No.</b>	<b>Course Code</b>	<b>Course</b>	<b>L/T/P</b>	<b>Contact hrs/week</b>	<b>Credits</b>	<b>Ext/Int</b>	<b>Category</b>
1	<b>23MA201</b>	Mathematics II	3/1/0	4	4	60/40	BSC
2	<b>23AS101</b>	Applied Science	4/0/0	4	4	60/40	BSC
3	<b>23CS201</b>	Data Structures and Algorithms	1/0/4	5	3	50/50	PCC
4	<b>23CD201</b>	Database Management Systems	1/0/4	5	3	50/50	PCC
5	<b>23CY201</b>	Java Programming	1/0/4	5	3	50/50	PCC
6	<b>23CY202</b>	Operating Systems	3/0/2	5	4	50/50	ESC
7	<b>23TA201</b>	Tamils and Technology	1/0/0	1	1	60/40	HSMC
8	<b>23AS102</b>	Applied Science Laboratory	0/0/4	4	2	40/60	BSC
<b>MANDATORY COURSE</b>							
9	<b>23MC102</b>	Mandatory Course II (Environmental Sciences)	Three weeks		0	0/100	MC
<b>Total</b>				<b>33</b>	<b>24</b>	<b>900</b>	

<b>SEMESTER III</b>							
<b>S No.</b>	<b>Course Code</b>	<b>Course</b>	<b>L/T/P</b>	<b>Contact hrs/week</b>	<b>Credits</b>	<b>Ext/Int</b>	<b>Category</b>
1	<b>23CY301</b>	Cyber Law and Digital Forensics	3/0/0	3	3	60/40	PCC
2	<b>23CY302</b>	Data Analytics and Visualization	3/1/0	4	4	60/40	PCC
3	<b>23CS301</b>	Advanced Java Programming	1/0/4	5	3	50/50	PCC
4	<b>23IT301</b>	Web Technology using React	1/0/4	5	3	50/50	PCC
5	<b>23MA301</b>	Mathematical Foundations for Computer Science	3/1/0	5	4	60/40	ESC
6	<b>23GE301</b>	Universal Human Values	3/0/0	3	3	60/40	HSMC
<b>MANDATORY COURSE</b>							
7	<b>23MC1XX</b>	Mandatory Course: III	2/0/0	2	0	0/100	MC
<b>Total</b>				<b>27</b>	<b>20</b>	<b>700</b>	

<b>SEMESTER IV</b>							
<b>S No.</b>	<b>Course Code</b>	<b>Course</b>	<b>L/T/P</b>	<b>Contact hrs/week</b>	<b>Credits</b>	<b>Ext/Int</b>	<b>Category</b>
1	<b>23CY401</b>	Ethical Hacking	3/0/2	5	4	50/50	PCC
2	<b>23CY402</b>	Access Control and Identity management	3/0/2	5	4	50/50	PCC
3	<b>23CY403</b>	Auditing IT Infrastructure for Compliance	3/1/0	4	4	60/40	PCC
4	<b>23AD402</b>	Design and analysis of algorithms	1/0/4	5	3	50/50	PCC
5	<b>23IT402</b>	Web Frameworks using REST API	0/0/4	4	2	40/60	PCC
6	<b>23AD403</b>	Managing Cloud and Containerization	1/0/4	5	3	50/50	PCC
7	<b>23ME305</b>	Design Thinking and Idea Lab	0/0/2	2	1	40/60	HSMC
<b>Total</b>				<b>30</b>	<b>21</b>	<b>700</b>	

SEMESTER V							
S No.	Course Code	Course	L/T/P	Contact hrs/week	Credits	Ext/Int	Category
1	23CY501	Internet Security	3/0/0	3	3	60/40	PCC
2	23CY502	Cloud Security	3/0/0	3	3	60/40	PCC
3	23CY503	Python for Data Analysis	3/0/0	3	3	60/40	PCC
4	23CYXXX	Open Elective 1	3/0/0	3	3	60/40	OEC
5	23XXXXX	Professional Elective-I	3/0/0 (or) 0/0/6	3/6	3	60/40 (or) 40/60	PEC
6	23CYXXX	Professional Elective – II	3/0/0	3	3	60/40	PEC
7	23CY504	Python for Data Analysis Laboratory	0/0/3	3	1.5	40/60	PCC
8	23CY505	Cloud Security Laboratory	0/0/3	3	1.5	40/60	PCC
<b>PROJECT WORK</b>							
9	23CY506	Mini Project I	0/0/4	4	2	40/60	PW
<b>Total</b>				<b>25</b>	<b>23</b>	<b>900</b>	

SEMESTER VI							
S No.	Course Code	Course	L/T/P	Contact hrs/week	Credits	Ext/Int	Category
1	23CY601	Hacker Techniques Tools and Incident Handling	3/0/2	5	4	50/50	PCC
2	23CY602	Security Policies and Implementation	3/0/0	3	3	60/40	PCC
3	23CY603	Engineering Secure Software Systems	3/0/0	3	3	60/40	PCC
4	23CYXXX	Emerging Elective – I	3/0/0	3	3	60/40	EEC
5	23IT701	Computational Biology	3/0/0	3	3	60/40	ESC
6	23CYXXX	Professional Elective – III	3/0/0	3	3	60/40	PEC
7	23CYXXX	Professional Elective – IV	3/0/0	3	3	60/40	PEC
<b>PROJECT WORK</b>							
8	23CY604	Mini Project II	0/0/4	4	2	40/60	PW
<b>Total</b>				<b>27</b>	<b>24</b>	<b>800</b>	

SEMESTER VII							
S No.	Course Code	Course	L/T/P	Contact hrs/week	Credits	Ext/Int	Category
1	23CY701	Artificial Intelligence and Machine Learning	3/0/0	3	3	60/40	PCC
2	23CS402	Algorithms of Internet	3/1/0	4	4	50/50	PCC
3	23CYXXX	Professional Elective –V	3/0/0	3	3	60/40	PEC
4	23CYXXX	Professional Elective –VI	3/0/0	3	3	60/40	PEC
5	23CYXXX	Open Elective – II	3/0/0	3	3	60/40	OEC
6	23CYXXX	Emerging Elective – II	3/0/0	3	3	60/40	EEC
7	23EES01	Employability Enhancement Skills	0/0/2	2	2	50/50	EES
<b>Total</b>				<b>21</b>	<b>21</b>	<b>700</b>	



<b>SEMESTER VIII</b>							
<b>S No.</b>	<b>Course Code</b>	<b>Course</b>	<b>L/T/P</b>	<b>Contact hrs/week</b>	<b>Credits</b>	<b>Ext/Int</b>	<b>Category</b>
<b>PROJECT WORK</b>							
1	<b>23CY801</b>	Project Work	0/0/24	24	12	40/60	PW
<b>Total</b>				<b>24</b>	<b>12</b>	<b>100</b>	

## HUMANITIES AND MANAGEMENT COURSES (8 CREDITS)

S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/Int	Category
1	23EN101	Oral and Written Communication Skills	2/0/2	3	3	50/50	HSMC
2	23TA101	Heritage of Tamils	1/0/0	1	1	60/40	HSMC
3	23TA201	Tamils and Technology	1/0/0	1	1	60/40	HSMC
4	23GE301	Universal Human Values	3/0/0	3	3	60/40	HSMC
5	23ENxxx	Design Thinking and Idea Lab	0/0/2	2	1	40/60	HSMC

## BASIC SCIENCE COURSES (14 CREDITS)

S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/Int	Category
1	23MA101	Mathematics I	3/1/0	4	4	60/40	BSC
2	23MA201	Mathematics II	3/1/0	4	4	60/40	BSC
3	23AS101	Applied Science	4/0/0	4	4	60/40	BSC
4	23AS102	Applied Science Laboratory	0/0/4	4	2	40/60	BSC

## ENGINEERING SCIENCE COURSES (21 CREDITS)

S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/ Int	Category
1	23IT101	Application Development Practices	1/0/4	5	3	50/50	ESC
2	23CS101	Problem Solving using C++	1/0/4	5	3	50/50	ESC
3	23CY101	Networking and Communication	3/0/2	4	4	50/50	ESC
4	23CY202	Operating Systems	3/0/2	5	4	50/50	ESC
5	23MA301	Mathematical Foundations for Computer Science	3/1/0	5	4	60/40	ESC
6	23IT701	Computational Biology	3/0/0	3	3	60/40	ESC

## PROFESSIONAL CORE COURSES (71 CREDITS)

S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/Int	Category
1	23CS201	Data Structures and Algorithms	1/0/4	5	3	50/50	PCC
2	23CD201	Database Management Systems	1/0/4	5	3	50/50	PCC
3	23CY201	Java Programming	1/0/4	5	3	50/50	PCC
4	23CY301	Cyber Law and Digital Forensics	3/1/0	3	3	60/40	PCC
5	23CY302	Data Analytics and Visualization	3/1/0	4	4	60/40	PCC
6	23CS301	Advanced Java Programming	1/0/4	5	3	50/50	PCC
7	23IT301	Web Technology using React	1/0/4	5	3	50/50	PCC
8	23CY401	Ethical Hacking	3/0/2	5	4	50/50	PCC
9	23CY402	Access Control and Identity management	3/0/2	5	4	50/50	PCC
10	23CY403	Auditing IT Infrastructure for Compliance	3/1/0	4	4	60/40	PCC
11	23AD402	Design and analysis of algorithms	1/0/4	5	3	50/50	PCC
12	23IT402	Web Frameworks using REST API	0/0/4	4	2	50/50	PCC
13	23AD403	Managing Cloud and Containerization	1/0/4	5	3	50/50	PCC
15	23CY501	Internet Security	3/0/0	3	3	60/40	PCC
16	23CY502	Cloud Security	3/0/0	3	3	60/40	PCC
17	23CY503	Python for Data Analysis	3/0/0	3	3	60/40	PCC
18	23CY504	Python for Data Analysis Laboratory	0/0/3	3	1.5	40/60	PCC
18	23CY505	Cloud Security Laboratory	0/0/3	3	1.5	40/60	PCC
19	23CY601	Hacker Techniques Tools and Incident Handling	3/0/2	5	4	50/50	PCC
20	23CY602	Security Policies and Implementation	3/0/0	3	3	60/40	PCC
21	23CY603	Engineering secure software systems	3/0/0	3	3	60/40	PCC
22	23CY701	Artificial Intelligence and Machine Learning	3/0/0	3	3	60/40	PCC
23	23CS402	Algorithms of Internet	3/1/0	4	4	50/50	PCC

## PROFESSIONAL ELECTIVE COURSES: VERTICALS

### VERTICAL - I Cloud Computing and Data Storage Technologies

S.No.	Course Code	Course Title	L	T	P	Credit	Ext/Int
1	23CD901	Data Virtualization	3	0	0	3	60/40
2	23IT901	Cloud Services and Integration	3	0	0	3	60/40
2	23CY901	Security and Privacy in Cloud	3	0	0	3	60/40
4	23AD901	Storage Technologies	3	0	0	3	60/40
5	23CS901	Software Defined Networks	3	0	0	3	60/40
6	23CB901	Stream Processing	3	0	0	3	60/40

### VERTICAL – II Applied Artificial Intelligence

S.No.	Course Code	Course Title	L	T	P	Credit	Ext/Int
1	23IT911	Intelligent Multiagent and Expert Systems	3	0	0	3	60/40
2	23AD911	App Development	3	0	0	3	60/40
2	23CY911	ETL Tools	3	0	0	3	60/40
4	23CS911	Statistical Pattern Recognition	3	0	0	3	60/40
5	23CD911	Stochastic and Network Control	3	0	0	3	60/40
6	23AD912	Bayesian Data Analysis	3	0	0	3	60/40

### VERTICAL - III AI in Cyber Security

S.No.	Course Code	Course Title	L	T	P	Credit	Ext/Int
1	23CY921	Data Privacy and Security	3	0	0	3	60/40
2	23CY922	Cyber Crime and Forensics	3	0	0	3	60/40
3	22CY923	Digital and Mobile Forensics	3	0	0	3	60/40
4	23CY931	Security and Privacy with Machine Learning	3	0	0	3	60/40
5	23CY932	Machine Learning for Intrusion Detection System	3	0	0	3	60/40
6	23CY933	AI in Cyber Security Policy and Governance	3	0	0	3	60/40
7	23CY934	Generative AI for Cyber Security	3	0	0	3	60/40
8	23CY935	Threat Intelligence Platform	3	0	0	3	60/40
9	22CY936	Human centered security and AI	3	0	0	3	60/40

### VERTICAL - IV Data Analytics

S.No.	Course Code	Course Title	L	T	P	Credit	Ext/Int
1	23IT931	NLP in Analytics	3	0	0	3	60/40
2	23IT932	Deep Learning Techniques	3	0	0	3	60/40
2	23IT933	Cognitive Systems and Analytics	3	0	0	3	60/40
4	23CS931	Big Data Analytics	3	0	0	3	60/40
5	23CD931	Social Network Analysis	3	0	0	3	60/40
6	23CY931	Exploratory Data analytics	3	0	0	3	60/40
7	23CS932	Data Science with Python	3	0	0	3	60/40

**VERTICAL – V CYBER SECURITY**

S.No.	Course Code	Course Title	L	T	P	Credit	Ext/Int
1	23CY951	Modern Cryptography	0	0	6	3	40/60
2	23CY952	Security Architecture	3	0	0	3	60/40
3	23CY953	Web Application Security	3	0	0	3	60/40
4	23CY954	Malware Analysis	3	0	0	3	60/40
5	23CY955	Steganography and Digital Watermarking	3	0	0	3	60/40
6	23CY956	Social Network Security Concepts	3	0	0	3	60/40
7	23CY957	Data Encryption	3	0	0	3	60/40
8	23CY958	Biometric Security	3	0	0	3	60/40
9	23CY959	Security Assessment and Risk Analysis	3	0	0	3	60/40

**VERTICAL – VI CYBER FORENSICS**

S.No.	Course Code	Course Title	L	T	P	Credit	Ext/Int
1	23CY961	Machine Learning for Digital Forensics	3	0	0	3	60/40
2	23CY962	Multimedia Forensics	3	0	0	3	60/40
3	23CY963	Social Media Forensics	3	0	0	3	60/40
4	23CY964	Network Forensics	3	0	0	3	60/40
5	23CY965	Advanced Cyber Forensics	3	0	0	3	60/40
6	23CY966	Vulnerability Assessment and Penetration Testing	3	0	0	3	60/40
7	23CY967	Artificial Intelligence in Cyber Forensics	3	0	0	3	60/40
8	23CY968	Advanced Network Forensics and Traffic Analysis	3	0	0	3	60/40
9	23CY969	Forensic Investigation Procedures and Protocols	3	0	0	3	60/40

**OPEN ELECTIVE COURSES**

S.No.	Course Code	Course Title	L	T	P	Credit	Ext/Int
<b>Open Elective Course - I</b>							
1	23CY001	Cyber Security Fundamentals	3	0	0	3	60/40
2	23CY002	Cryptography – Tools and Techniques	3	0	0	3	60/40
3	23CY003	Cybersecurity Auditing and Assurance	3	0	0	3	60/40
<b>Open Elective Course - II</b>							
4	23CY004	Edge Computing	3	0	0	3	60/40
5	23CY005	Operating System Security	3	0	0	3	60/40
6	23CY006	Security Governance, Risk, and compliance	3	0	0	3	60/40

## EMERGING ELECTIVE COURSES

<b>Emerging Elective Course - I</b>							
S.No.	Course Code	Course	L	T	P	Credit	Ext/Int
1	23CY007	Application Security	3	0	0	3	60/40
2	23CY008	Dependable Computing	3	0	0	3	60/40
3	23CY009	Security and Privacy of Cyber Physical Systems	3	0	0	3	60/40
<b>Emerging Elective Course - II</b>							
4	23CY010	LDAP Directory Services	3	0	0	3	60/40
5	23CY011	Proactive Security Tools and Techniques	3	0	0	3	60/40
6	23CY012	Jenkins and Kubernetes	3	0	0	3	60/40

## VALUE ADDED COURSES

S.No.	Course Code	Course	Credit	Category
1	23VA140	Kali Linux	1	VAC
2	23VA141	Wireshark	1	VAC
3	23VA130	Effective Communication Skills	2	VAC

## MANDATORY COURSES

S.No.	Course Code	Course Title	Category
1	23MC101	Induction Programme	MC
2	23MC102	Environmental Sciences	MC
3	23MC103	Soft Skills	MC
4	23MC104	Management Organizational Behaviour	MC
5	23MC105	General Aptitude	MC
6	23MC106	Life Skills and Ethics	MC
7	23MC107	Stress Management	MC
8	23MC108	Constitution of India	MC
9	23MC109	Essence of Indian Traditional Knowledge	MC

## SCHEME OF CREDIT DISTRIBUTION – SUMMARY

S.No	Stream	Credits/Semester								Credits	AICTE Norms
		I	II	III	IV	V	VI	VII	VIII		
1	Humanities and Management Courses (HSMC)	4	1	3	1					9	16
2	Basic Science Courses (BSC)	4	10							14	23
3	Engineering Science Courses (ESC)	10	4	4			3			21	29
4	Professional Core Courses (PCC)		9	13	20	12	10	7		71	59
5	Professional Elective Courses (PEC)					6	6	6		18	12
6	Open Elective Courses (OEC)					3		3		6	9
7	Emerging Elective Courses (EEC)						3	3		6	
8	Project Work (PW)					2	2		12	16	15
9	Employability Enhancement Courses (EES)							2		2	
10	Mandatory Courses (MC)									Non credit	
<b>Total</b>		<b>18</b>	<b>24</b>	<b>20</b>	<b>21</b>	<b>23</b>	<b>24</b>	<b>21</b>	<b>12</b>	<b>163</b>	
<b>AICTE</b>		<b>17.5</b>	<b>20.5</b>	<b>23</b>	<b>22</b>	<b>21</b>	<b>22</b>	<b>18</b>	<b>15</b>		<b>163</b>