Instruction	31 30 29 28 27 26 Opcode	25 24 23 22 21 RS	20 19 18 17 16 RT	15 14 13 12 11 RD	10 9 8 7 6 Shamt	5 4 3 2 1 0 Func
add	SPECIAL = 0	RS	rt	rd	0	100000
addi	1000	RS	rt	Immediate		
addiu	1001	RS	rt	Immediate		
addu	SPECIAL = 0	RS	rt	rd	0	100001
sub	SPECIAL = 0	RS	rt	rd	0	100010
subu	SPECIAL = 0	RS	rt	rd	0	100011
div	SPECIAL = 0	RS	rt	0		11010
divu	SPECIAL = 0	RS	rt	0		11011
mult	SPECIAL = 0	RS	rt	0		11000
multu	SPECIAL = 0	RS	rt	0		11001
mfhi	SPECIAL = 0	0		rd	0	10000
mflo	SPECIAL = 0	0		rd	0	10010
mthi	SPECIAL = 0	RS	0			10001
mtlo	SPECIAL = 0	RS	0			10011
and	SPECIAL = 0	RS	rt	rd	0	100100
andi	1100	RS	rt	Immediate		
xor	SPECIAL = 0	RS	rt	rd	0	100110
xori	1110	RS	rt	Immediate		
nor	SPECIAL = 0	RS	rt	rd	0	100111
or	SPECIAL = 0	RS	rt	rd	0	100101
ori	1101	RS	rt	Immediate		
sll	SPECIAL = 0	0	rt	rd	sa	0
sllv	SPECIAL = 0	RS	rt	rd	0	100
slt	SPECIAL = 0	RS	rt	rd	0	101010
slti	1010	RS	rt	Immediate		
sltiu	1011	RS	rt	Immediate		
sltu	SPECIAL = 0	RS	rt	rd	0	101011
sra	SPECIAL = 0	0	rt	rd	sa	11
srav	SPECIAL = 0	RS	rt	rd	0	111
srl	SPECIAL = 0	0 R (0)	rt	rd	sa	10
srlv	SPECIAL = 0	RS	rt	rd	0 R (0)	110

	Opcode	RS	RT	RD	Shamt	Func
beq	100	RS	rt	offset		
beql	10100	RS	rt	offset		
bgez	REGIMM = 1	RS	1	offset		
bgezal	REGIMM = 1	RS	10001	offset		
bgtz	111	RS	0	offset		
blez	110	RS	0	offset		
blezl	10110	RS	0	offset		
bltz	REGIMM = 1	RS	0	offset		
bltzal	REGIMM = 1	RS	10000	offset		
bne	101	RS	rt	offset		
bnel	10101	RS	rt	offset		

	Opcode	RS	RT	RD	Shamt	Func
j	10	instr_index				
jal	11	instr_index				
jalr	SPECIAL = 0	RS	0	rd	hint	1001
jr	SPECIAL = 0	RS	0		hint	1000

	Opcode	RS	RT	RD	Shamt	Func
LB	100000	base	rt	offset		
LBU	100100	base	rt	offset		
LH	100001	base	rt	offset		
LHU	100101	base	rt	offset		
LUI	1111	0	rt	immediate		
LW	100011	base	rt	offset		
LWL	100010	base	rt	offset		
LWR	100110	base	rt	offset		
SB	101000	base	rt	offset		
SH	101001	base	rt	offset		
SW	101011	base	rt	offset		
SWL	101010	base	rt	offset		
SWR	101110	base	rt	offset		

	Opcode	RS	RT	RD	Shamt	Func
Syscall	0					1100
NOP	SPECIAL = 0	0	0	0	0	0